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WALLACES' FARMER AND Iowa Homestead

Good Farming Clear Thinking Right Living

Oat Bins Heaping Full

What's Limestone Worth? . Page 8

Does Your Tile Still Work? . Page 14

Dad Can Make Good Toys . Page 30

SOME farmers threshed, some combined, but nearly all were interested in saving straw. Both scenes above were repeated hundreds of times all over Iowa, where bins are overflowing with oats.

The threshing crew is working on the Ted Hupp farm, Audubon county. The baler is working on the Raymond Engelen farm, in Carroll county.

Look at page 9 for more pictures about the oat crop.

AUGUST 21, 1948

IOWA'S LEADING FARM NEWSPAPER

Only Chevrolet Trucks Have All These Finer Farm Features:

Cab that "Breathes"* • Flexi-Mounted Cab • Uniweld, All-steel Cab Construction • Fully-adjustable Seat • All-round Visibility with Rear-corner Windows* • New, Heavier Springs • Super Strength Frames • Ball-bearing Steering • Full-floating Hypoid Rear Axles • Specially-designed Brakes • Hydrovac Power Brakes in Heavy Duty Models • Wide Base Wheels • Multiple Color Options

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Yes, you can do more farm work in less time with these latest and greatest Chevrolet trucks! For now there's new value; features of matchless operating ease and efficiency, produced to truck standards of tomorrow to bring you ADVANCE-DESIGN! There's *triple* economy because Chevrolet trucks bring you 3-way thrift—low operating cost, low upkeep cost and the *lowest list prices in the volume field!* See them now. See your Chevrolet dealer for the *finest* in farm trucks.

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CHEVROLET

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The SIGN of DEPENDABILITY

YOU Can Depend on Pioneer

As you drive down the main roads, it looks like *everybody* plants Pioneer. You pass field after field of good corn marked with a Pioneer sign. More and more farmers plant Pioneer as the years go by. The swing is to Pioneer. Here's why. When you plant Pioneer seed corn you can depend on it to work well in your corn planter; you can depend on strong germination; you can depend on the biggest yields your soil and weather can give.

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You can depend on Pioneer because it's bred to produce a better crop in both good and poor years. It has been bred since 1913 and planted since 1924. Years of research for better corn make it dependable. Eight Pioneer corn breeding stations are located in Minnesota, Iowa, Illinois, Indiana, and Ohio. Eleven recognized corn breeders and twenty-five trained assistants work continuously to bring you better corn. For a dependable corn crop, plant Pioneer.

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PIONEER

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BETTER CORN THRU RESEARCH

Time-proved *design* for clean picking and husking . . . top-notch *engineering* to reduce weight, draft and cost—that's the combination that gives the new Belle City Corn Picker such outstanding value.

The new Belle City Picker weighs only 1,750 pounds, yet reinforced steel construction gives it rugged strength. More than 60 antifriction bearings, with V-belts and enclosed, precision-cut steel gears running in oil, provide light draft you'll appreciate on hills or in soft fields. The wagon hitch is straight behind the tractor drawbar—no side draft. Perfect balance lets you tilt the hinged gathering points almost without effort. You hitch the picker to the tractor without straining or heavy lifting. More than ever, the new Belle City makes corn picking a one-man, one-tractor job!

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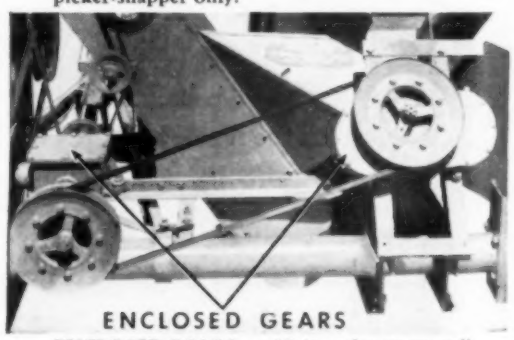

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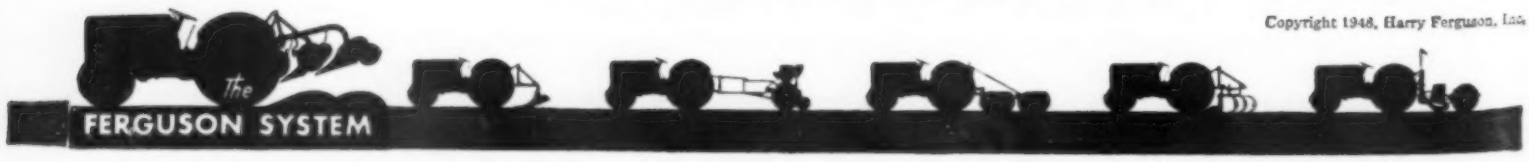

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Market Corn Thru Fall Pigs?

Outlook for Corn Points to Wider Fall Feed Ratio

Gilts on the August Van Renterghem farm, Poweshiek county, Iowa, will farrow around September 1. Van Renterghem doesn't give them much corn, but had to use a little when picture was taken.

"IT LOOKS as if corn is sure to get cheaper, and fall pigs will be a good way to market part of the corn," says young Gerald Nevins, Muscatine county, Iowa.

His outlook is a general one in the heavy fall pig area of Iowa. Farmers in the east-central counties are the heaviest fall pig producers in the state.

Dean McWilliams, of Poweshiek county, Iowa, isn't sure but what prospects for 1948 fall pigs are a lot brighter than for 1949 spring pigs. He feels the best way to sell 1948 corn may be thru fall pigs.

Traditionally, a huge corn crop is followed by a huge spring pig crop and lower hog prices the year after the big corn crop.

The bright prospects for fall pigs are all very nice for the man who has some bred sows. But what about the fellow who sold off his sows, or had very late spring pigs?

Some veteran farmers, and farm management men, are advising the buying of piggy sows or gilts if they can be had worth the money. Their advice stops just short of a definition of what is "worth the money."

Other farmers are planning to use a lot of corn by feeding spring pigs to heavy weights.

Fall pigs are not certain moneymakers. You have to do a good job with them first. It's easier when they come early.

Early September seems to be the ideal farrowing time in the minds of a lot of men who always raise fall pigs. Dale McWilliams, George A. Norden, August Van Renterghem, Dean McWilliams, all of Poweshiek county; Nevins and Harry Nauman, of Muscatine county, and Francis Beecher, of Johnson county, Iowa, all like to have fall pigs arrive by early September.

Nevins says that is a good date, because you have plenty of time to look after the pigs. He grins and adds: "It's nice to have that fall pig money in the spring, too.

"If they come early, they get a chance at some pasture, which gives them a little push to ward off the effects of bad weather," Nevins adds. Feeding tests point up the value of fall pig pasture. Pigs seem to store up a certain amount of essential vitamins for the cold days to come.

In order to avoid late August and September heat, Nauman uses the barn or a shed as a farrowing house. A good open shed lets the breeze thru, isn't as hot as a portable house.

Nauman is fussy about the start that a young pig gets. There lies the profit, he thinks. Just before weaning, he moves the pigs and sows to pasture, leaves them together a few days.

"The pigs are eating from self-feeders by then," he says. "Then I move the sows away. The pigs don't spend several days chasing up and down the fence, trying to get home."

He thinks it costs money to leave the sows at the farrowing house and haul the pigs to pasture. That puts them in a strange place, away from their mothers. You then get a certain amount of weaning set-back, Nauman thinks.

Nearly everyone who raises early fall pigs mentions that they have plenty of time to care for them in September. That is important. An extra pig in each litter influences the profit and loss statement.

Norden mentioned another advantage his fall pigs have. "I certainly don't have much feed in these gilts," he says. "They've had good pasture, a lot of oats, but not as much corn or supplement as they would have needed in winter."

Howard Berry, Johnson county, Iowa, brings up another point that applies to profitable pigs, whenever they are born.

"It always seems to be a good idea to keep those pigs going hard until they reach a weight of 75 to 100 pounds. The first eight weeks are especially important," he says.

The start a pig gets then makes quite a difference in how long it takes him to go to market. That is more than ever true of fall pigs. They aren't going to have more than a couple of months of good pasture. They face a lot of cold, cloudy days. So it's a good idea to get them going fast.

Another reason for pushing fall pigs is given by Van Renterghem: "If you don't shove them right along, they aren't big enough to do a good job of gleaning in the corn field," he says. "I like to have the fall pigs follow the corn picker. Then you won't see any corn in next year's oats."

Fall pigs may demand more in the way of mixed protein supplements, vitamins, minerals and salt than spring pigs. Pastures, tho valuable, aren't so lush.

Efficient use of grain demands a proper balance in the ration. You don't get a good balance by skimping on the feeds you have to buy. You just end up feeding more homegrown grain, taking longer to get to market.

Berry is a purebred breeder. So he believes in the importance of good breeding. But he says: "After all, breeding isn't everything. It's about half handling feeding and care of the pigs. You have to take good care of them and feed them right."

So get your fall pigs eating early, give them pasture and plenty of fresh water, and see that their grain is balanced by a complete layout of salt, minerals, vitamins and supplements.

If history repeats, you are apt to become less concerned with efficient gains when you have an abundance of corn. That's poor business. The more pounds of pork you can get from a bushel of corn, the better. Leave out any one item and your pigs start using more corn to make a pound of pork.

Editorials

Corn Cribs Will Help Corn Price

DO YOU feel safe about corn prices this fall? Will the loan price, averaging $1.45 for the nation as a whole, take care of everything? Let's take a look at the situation.

You can't use the corn loans unless you have storage for the corn. Neither can you use the corn purchase agreement safely unless your corn is in good cribs. You must stand the loss if your corn is damaged.

With a big corn crop and reduced livestock numbers, there might be more corn offered next December than the market would take at the loan price. Corn and oats can sell, and have sold, below loan prices.

Corn stocks are down, it is true. But livestock numbers are down, too. And crib space has been disappearing. Fallen-down cribs have not been replaced in the last few years.

Price insurance to the corn farmer lies in having enough crib space. It's time to compare your expected corn crop with your cribs.

Act now to protect yourself from a possible bad winter corn market. More corn cribs will protect corn price.

CORN PURCHASE AGREEMENT

You don't have to get a corn loan in order to sell your corn at the loan price.

Not all farmers yet understand that the purchase agreement is a useful supplement to the corn loan.

Under the purchase agreement, you pay half a cent a bushel to the AAA. In return, the AAA agrees to buy your corn at the loan price, at some delivery date in the future.

If the price goes up, you can forfeit your half-cent and sell your corn elsewhere. If the price goes down, you can sell to the AAA at the loan price.

You'll be paid for the grade of corn delivered. That means corn must be under cover, altho the crib need not pass inspection for corn loans.

If the country is flooded with corn this fall, don't get excited and sell the corn cheap. The purchase agreement will protect you.

Support Prices Will Be Under Attack This Fall

WATCH out for a savage political attack this fall on corn and wheat loans and on farm price supports of all kinds.

Dairymen and poultry producers in the east have been short on feed. Their costs are still high.

Consumers are complaining about high food costs. Some ask that all supports be taken away from farm prices. That won't make milk, or pork, or beef, cheap next winter. But consumers don't know that.

One answer farmers could make to all this would be some reasonable cuts in support prices in 1949. Unfortunately, the new law keeps most price supports at the 1948 levels thru another year.

Some of these supports are too high. Sensible farmers admit it. In the corn belt, a lot of farmers would be happier if corn loans were cut below 90 per cent of parity in 1949.

Another year of high corn loans may pile up so much corn that we'll get into trouble.

Farmers need to explain to consumers how long it takes to increase production of milk, beef and pork. How many months—or years—it is from the time feed comes down until meat is cheaper at the butcher shop.

But farmers may also need to show in some dramatic way their interest in the consumer and in the general welfare. If the farm organizations would go together to get some reasonable cuts in supports for 1949, everybody would profit.

A good general is willing to give up a suburb rather than lose a city. Farmers may find it wise to take some cuts in support prices in order to avoid the risk of losing them entirely.

Who Owns Your Farm?

Does the Right to Wreck Soil Go With the Title?

EVERYBODY is in favor of soil conservation these days. You even get a little tired of hearing the words.

Everybody is in favor of an inch of rain a week in August, too. And no temperature over 100 degrees.

Those good wishes for fine weather sometimes seem to get as much result as our good wishes for conservation.

Drive over the corn belt and look at the land. In many places, the ditches are getting bigger. Corn is still planted up and down the hills.

All the work for soil conservation has not begun to balance the actual losses in soil fertility that have come thru overcropping during the war years.

That overcropping still continues. Iowa has several million more acres in row crops this year than it would have if we really took soil conservation seriously.

THE fact is, we don't take it seriously. If we did, we would be doing a lot of things we aren't doing.

To get real soil conservation, we need:

1. Longer leases. A tenant can't do much except mine soil if he is only around for a year or so.

2. Compensation for unexhausted improvements. This is a fancy phrase which means that if a tenant does a job of terracing, or contouring, or applies lime, and leaves before he gets the full benefits, he gets paid for improvements left behind.

3. Regulations to protect the land against mistreatment by the owner. We refuse to let the owner of a horse beat it to death. But it is all right for the owner of land to destroy it and to rob twenty future generations of what that land might produce.

There are many other things to be done, but this is enough to talk about now.

The fact is that our present habits in land ownership and tenancy make it hard for us to do right by the soil. All the work of the Soil Conservation Service, of the extension service, of the county AAA, is often neutralized by tenants who move yearly, by owner-operators who farm destructively, by absentee landlords who ignore the needs of the soil.

WHEN we get serious about soil fertility, we'll get serious about securing a tenure system that gives a break to the farmer who wants to preserve his soil.

Probably we need—in state law—provision for compensation for unexhausted improvements. And we need some legal way by which the whole community can protect itself from robbery.

It is robbery when the temporary owner of a piece of land tears down its fertility. That "owner" is just the temporary custodian of the soil. Unless he is a good custodian, the community should take action.

WHAT sort of action should this be? That's a hard one. We all have the healthy feeling that a man should be left alone on his farm as much as possible.

How far can the state properly go in preventing destruction of soil fertility by a farm owner?

We'd better tackle questions like this if we really want to do something about soil conservation.

As Iowa Goes, So Goes The Nation

YOU have heard that saying about Maine. It is more nearly true about Iowa, Illinois and some other states that usually shift votes about as the nation does.

So explains Louis H. Bean in "How to Predict Elections" (Knopf, $2.50). If you want to surprise the neighbors with your knowledge of political trends, get a copy.

If Maine, in September, casts 40 per cent of its votes for the Democratic candidate for governor, what does this show about the probable national vote for the Democratic candidate for president?

Doctor Bean tells you. If Iowa seems likely to be 45 per cent Democratic, does this mean that the nation will be 52 per cent Democratic? Bean knows that, too.

Bean tells the editors of Wallaces' Farmer and Iowa Homestead that he can pick counties in Iowa which also reflect the national trend. That is, Blank county may habitually run from 8 to 10 percentage points under the national Democratic percentage. So, if Blank county lines up only 35 per cent Democratic, in pre-election estimates, Dewey is in.

Incidentally, did you know that it takes over 52 per cent of the popular vote to elect a Democratic president, but only 48 per cent to elect a Republican president?

Trapped By A Five-Year Mortgage

WHEN does the mortgage on your farm run out? In the corn belt, in 1944-46, about half of the new mortgages were for a term of five years or less.

Only one-fourth of the loans ran for more than 10 years.

This is bad business for the farmers who have five-year loans.

Interest rates are low now. They may be higher in five years. Farm prices are good now. They may be lower in five years. And renewals on mortgages may be hard to get.

Check up on your mortgage. If it runs out in a few years, and if you will have to renew, see if you can't renew it now for a long time and at present rates of interest.

Lots of farmers are paying off their mortgages. That's fine.

But if you have a mortgage, get the kind that doesn't have to be paid off for 20 years or more. The five-year kind can cause trouble.

Who knows what hogs will bring in 1953? Or what rate of interest mortgage holders will want?

"We'll Never Need Those Bins Again"

IN THE years the steel CCC bins were empty, some folks believed we had too many. A lot were sold.

In 1940 these ever-normal granary bins would hold 136 million bushels. Now only enough bins are left to hold 59 million bushels.

Most of these bins are now in Iowa, thanks to the hard work of the state Production and Marketing committee. Now we wish we had a lot more.

Those bins will be filled up with shelled corn next summer. Yet how recently we heard folks say: "We'll never need those things again!"

Odds *and* Ends

DID you take all the woven wire off the temporary corn crib to patch a hole in the fence? And what happened to the poles that held the roof up?

TEMPORARY corn cribs used to stick up all over Iowa. They've mostly vanished in the last two or three years.

MANY farmers will want to get new permanent cribs, if it can be managed. What kind is best?

WHEN you set up a new permanent crib, plan it so you can dry corn in it in a soft-corn year. Drying corn on the farm can pay big in some seasons.

IOWA farmers, speaking thru the Wallace-Homestead Poll, came out strong recently for resuming peace talks with Russia. They'll be pleased to see that the administration is finally turning in that direction.

THE Russian government is an exasperating crowd to deal with. But it is still better to bargain than to fight. If diplomats, trained in bargaining, ran our foreign affairs instead of soldiers, trained in fighting, we might do better, too.

HOW much good will the new anti-inflation bill do? A little. It checks installment buying, and can cut down bank loans.

BACK in 1920, the Federal Reserve System moved too late and too violently to check inflation. Farm prices were hit hard that year.

WHETHER we can put the brakes on more skillfully this time is a question. Maybe the brakes aren't good enough anyway. But congress has provided a little relining.

BIG cotton crop lowered the price of lard and soybeans sharply. Cottonseed oil competes with both. Cotton is going into government loans on a big scale, too. Another surplus may be starting to pile up there.

FARMERS who went against the current and raised more pigs and more chickens this year are feeling cheerful. They'll have cheaper feed and good prices this winter.

FARM boys will be registering for the draft soon. So far, the draft authorities have been slow in announcing standards for deferment. Local draft boards may have a tougher job than before.

TALL corn at road corners can increase accidents. We hear that some farmers in Greene county, Iowa, have been going out to cut off stalks just above the top ear for 100 feet each way from the corner. That should help.

WHEAT farmers should get lower prices in the future because the senate refused to approve the international wheat agreement. Now importing countries think they see prices going down, and may not sign up again.

HONOR counties in the Security Loan drive in Iowa were Sioux, Pocahontas, Grundy — all farm counties. Keep buying U. S. Savings Bonds, even tho the summer drive is over.

THE August 10 crop report, based on August 1 conditions, shows the biggest corn crop in history in both state and nation. The national estimate is 3,506,330,000 bushels. Iowa expects 646,-140,000 bushels, or an average of 60 bushels per acre.

IOWA is breaking the record on both oats and corn this year. The oat crop hit 273,375,000 bushels, or a little more than the previous record of 271,998,000 bushels in 1937.

THIS year, we may have the largest amount of feed per unit of livestock that we have ever had. This is for grain and by-products only. Hay supplies are just average nationally, below average in some states.

FARMERS will have 22.4 bushels of corn this winter for each animal unit. That's the highest amount in the period 1927-1948. In 1932, there were 20 bushels of corn per livestock unit.

LAST time we had a 28 per cent increase in the amount of corn per livestock unit, the price of corn dropped 36 per cent from July to December. That was in 1935.

SUCH a drop, this year, would cut Iowa corn prices to $1.25 in December. But the corn loan stands in the way of such a decline.

Song of the Lazy Farmer

WHENE'ER my corns begin to pain, thus indicatin' it will rain, then I enjoy my misery 'cause I can loaf some more, by gee. When raindrops fall I can not go outside to plow or even hoe; Mirandy can't complain a bit or tell me to git up and git. She hates it, but leaves me alone, and so my time is all my own; at least, that's how it's worked to date, of course there's no sense pushin' fate, it's possible if I should stay in her sight on a rainy day, she'd think up some obnoxious thing that I would have to do, by jing.

So when the rain begins to fall, I never hang around at all; I get some place where I can lay and pass some pleasant time away. My fav'rite spot is in the mow, there's nothing quite so nice, somehow, as restin' on the hay up there and watchin' drops fall thru the air. I love the sweet alfalfa smell, and that of steamy rain, as well; it's never long until my eyes get heavy as the stormy skies, then I crawl back into the gloom, where it is dark and there is room, I stretch out there upon the hay and soundly sleep most of the day.

Limestone spread in the fall, as is being done on this Lee county, Iowa, farm, becomes available for next spring's seeding. Try to spread lime six months ahead of legume seeding.

Buy Lime By Quality

When Buying, Check the Calcium Content and Fineness of Grind

FARMERS need to know more about liming and the effect it has on soils and crops. Just to understand that "liming is good practice" is not enough. All soils are not alike. All limestone is not alike.

There are some questions which farmers should ask before they invest in limestone for their fields. Here are some of them:

What does liming do to the soil?

Liming sweetens the soil. Some emphasize this point. They say that a soil which is not acid favors the growth of beneficial soil bacteria. Inoculation for legumes is more effective.

Others emphasize the point that the calcium in lime is a plant food. All farm crops—and particularly legumes—need the calcium.

All agree that lime in the soil makes it possible to get good stands of alfalfa and the clovers. Then the legumes further improve the soil for growing grain crops.

Tests which have been made at Iowa State College indicate that lime on some soils will increase alfalfa yields one and one-half tons per acre. Corn and oat yields are increased from three to five bushels per acre.

Do all of the soils in the corn belt need liming?

The answer to this question is "No." Some corn belt soils have too much lime. The "alkali" spots found in level land are really high-lime areas. There are some areas in western Iowa where lime can be seen as you walk over the land. Money spent for liming these soils would be wasted.

But these high-lime areas are the exception. Most areas in the corn belt need lime or just barely have enough to get by. Cropping and erosion use up some of the lime each year.

How can a farmer know whether his land needs lime?

Failure to get stands of alfalfa, sweet clover or red clover is a good sign of lime shortage. Short crops of these legumes are also a sign of lime needs.

If these signs of lime shortage in your soil appear, have a test made of the soil. Go to your county extension director for instructions on how to take soil samples and where to send the samples to have them tested, or the soil samples can be sent to the soil testing laboratory in your state.

The lime test is much more simple and much more accurate than soil tests for other plant food needs. The test report will tell you how many tons are needed per acre.

What points should be watched in buying limestone?

Limestone varies in the percentage of calcium carbonate which it contains. This is the plant food and the soil sweetener. Some samples tested in the Iowa Department of Agriculture laboratory have run 45 per cent or lower. Other samples have run 90 and higher.

Fineness of grind is another quality which should be checked. Coarse limestone becomes available very slowly. You need finely ground limestone for benefit within three years.

The percentage of moisture in limestone is an important point to the buyer. Limestone may run 10 per cent moisture, or the moisture content may be down to 3 or 4 per cent. The man who buys limestone with 10 per cent moisture is paying for a lot of water.

How does the value of limestone vary according to fineness of grind?

On the basis of benefit to the soil in three years, H. B. Cheney, of Iowa State College, has worked out the values in this way:

Of limestone held on a four-mesh sieve (four spaces per inch), none is available in three years. It won't dissolve in that time.

If held on an eight-mesh sieve, 10 per cent will become available in three years.

If held on a 50-mesh sieve, 40 per cent will be available in three years.

Limestone that goes thru a 50-mesh sieve is 100 per cent available in three years.

How can the farmer know what the lime he is buying contains, and how finely it is ground?

In Iowa, the law requires that the limestone buyer must be given a ticket showing the weight, fineness of grind and the percentage of calcium carbonate equivalent. Most states have a similar law. (The Iowa law does not require moisture content to be stated. You have to look out for yourself on that.)

This law is enforced by the Iowa Department of Agriculture. Mrs. E. M. Johnston is head of the state chemical laboratory in the department. Four inspectors give special attention to enforcement, under the direction of O. N. LaFollette.

After you know the percentage of calcium carbonate equivalent and the fineness of the grind, how can you figure the value of the lime.

Mrs. Johnston recommends a unit formula which was worked out by Iowa State College men. Here is the way one sample was worked out by J. E. McCambridge, department chemist.

Ten per cent was retained on the eight-mesh sieve. This is 10 per cent available in three years. In 100 pounds, there would be one pound available.

Fifty per cent was retained on an eight-mesh sieve. As this is 40 per cent available in three years, the total for 100 pounds would be 20 pounds.

Forty per cent of the sample passed thru a 50-mesh sieve. All of this is effective in the first three years.

The total for this sample was 61 pounds out of 100 pounds of limestone that would be effective in three years' time.

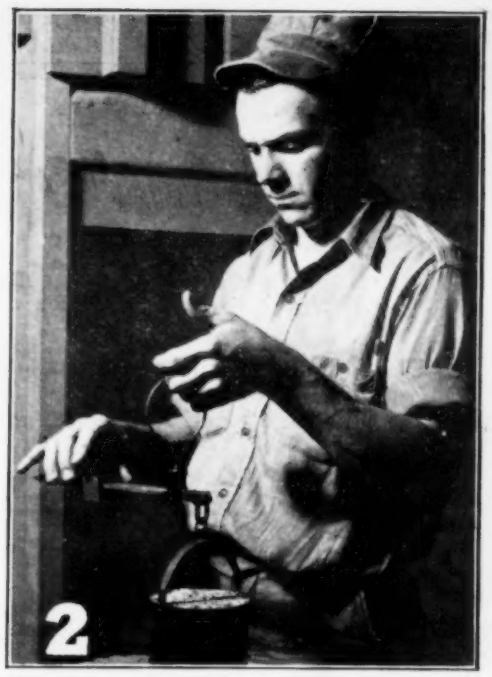
Then, as the sample contained 90 per cent calcium carbonate equivalent, units of effective calcium carbonate would be 61 pounds times 90 per cent, or 54.

This unit value can be figured for each ticket. It should enable farmers to compare limestone values.

How can a farmer find out whether the analysis on the ticket is correct?

Mrs. Johnston says that farmers can send samples to the state laboratory for analysis. The fee is one dollar. The preferred method, however, is for the farmer to ask the department to send an inspector to take the sample.

Lime samples must be taken from at least four places in the load for accurate tests.



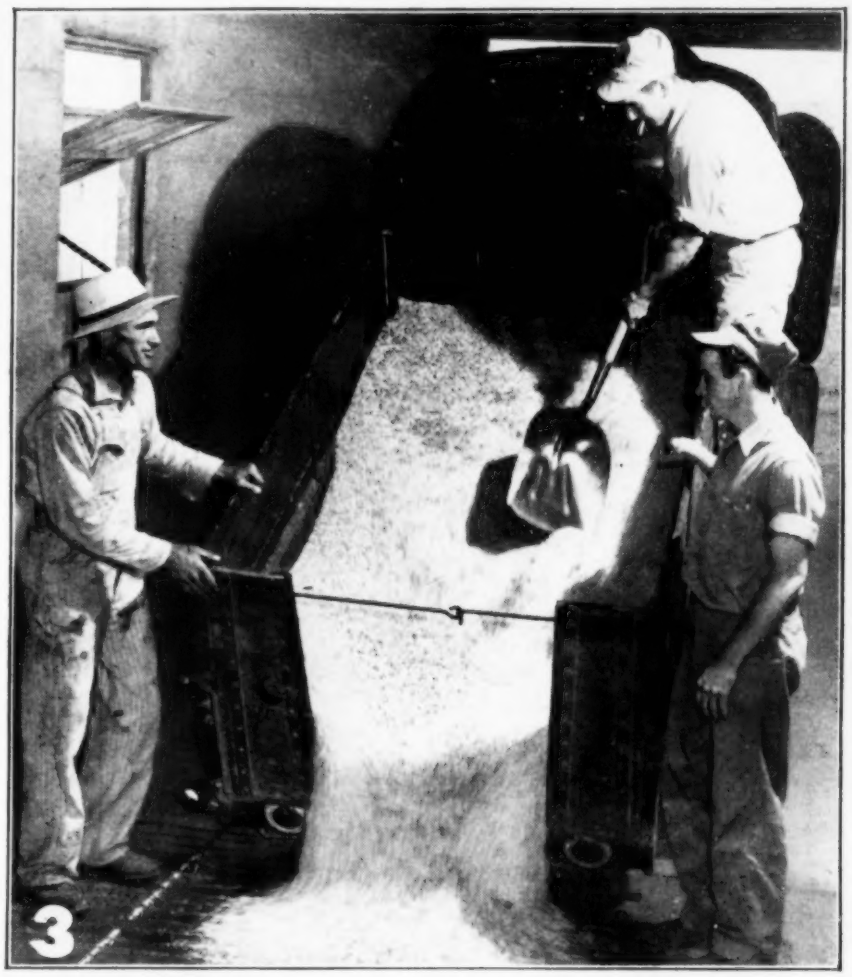
Here Come The Oats!

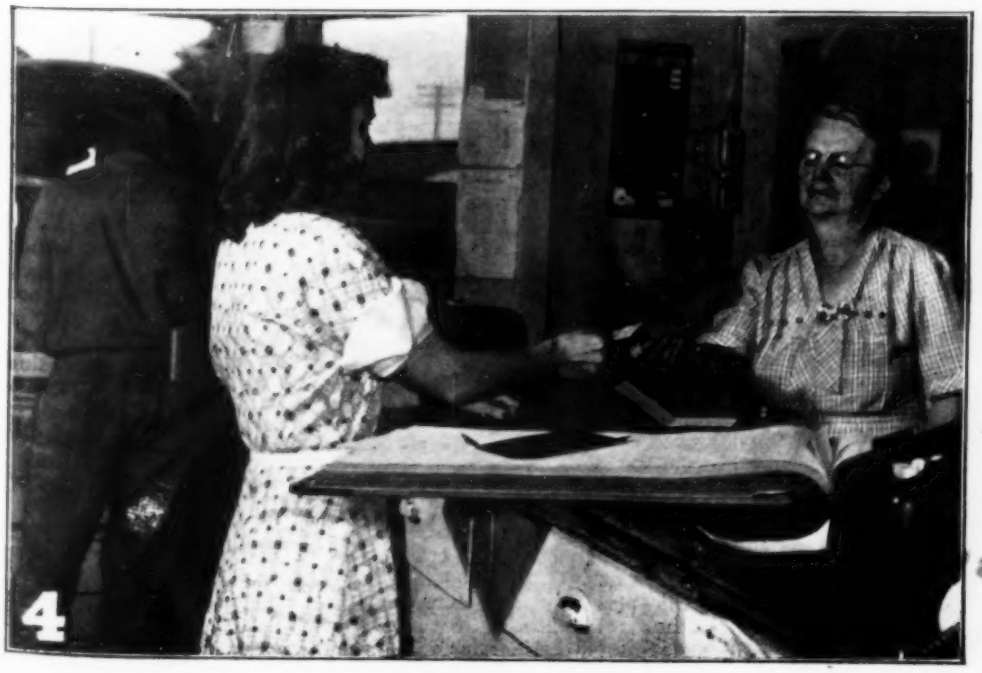
ELEVATOR men might well have issued some such warning as the harvest rush struck. This fall, the cry will change. Soybean deliveries will keep the elevator men busy. Then the deliveries of corn will start pouring in.

People living in Carroll county, Iowa, are pictured on this page. The photographs were taken at a typical farmers' cooperative elevator —the one at Glidden. It has a capacity of 110,000 bushels, annually handles more than 500,000 bushels of grain.

G. R. Frease is the manager of the elevator. Mrs. Betty Dedrick is the bookkeeper. Bob E. Simpson and Harmon Linn, Jr., are employed there.

Manager Frease says that oats delivered there during July and August averaged about 34 pounds per bushel, test weight, with 11 to 13 per cent moisture.





1 Sample of oats delivered by Ray Haselton is being tested for moisture. Mrs. Betty Dedrick is operating the moisture tester.

2 Grain from which this sample of oats was taken tests 37 pounds per bushel—the heaviest oats delivered that day. They were grown by A. F. Matt. Harmon Linn, Jr., is making a test of the sample.

3 Harold Bender brought in a truck load of oats. Harmon Linn, Jr., right, and Bob Simpson, in the truck, are helping to dump the grain into the elevator hopper.

4 Payment Mrs. Julia Graves, owner, gets a check for her share of the oats grown on her farm. It took all of the room in the bin to hold the tenant's share, so Mrs. Graves sold to the elevator.

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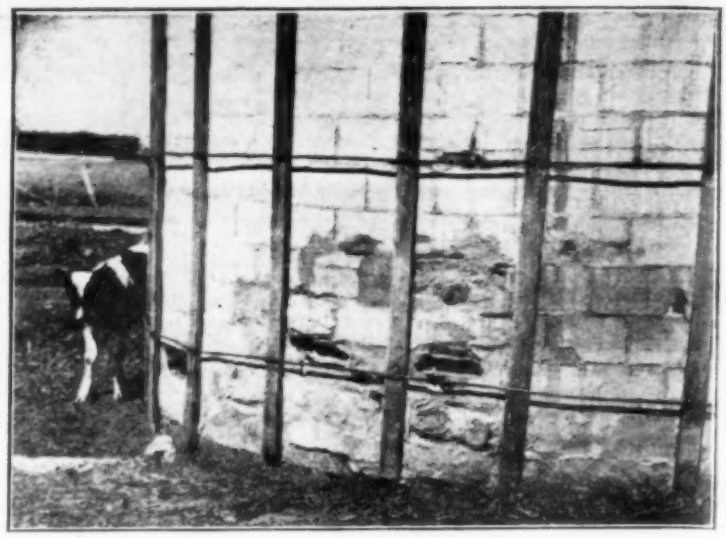

Old Silo is being repaired for use this fall. New iron hoops rest on creosoted 2x4's, which are placed vertically. After the rods are in place, holes must be chinked air-tight to prevent spoilage. This repair job is on the M. H. Noble farm, Mitchell county, Iowa.

Old Silos Can Be Chinked Up

Some Need New Hoops To Hold Pressure, As Well As Mortar To Fill the Cracks

BECAUSE of hay shortage, nearly every available silo in the state is likely to be filled this fall. Maybe some have stood empty for a few years. All old silos and some new ones need looking over before the last minute.

Here are two questions to keep in mind when examining your silo: (1) Is it strong enough so it will not burst? (2) Is it free from cracks that might admit air and cause spoilage?

Then a third question, for wooden silos in particular: Does it stand straight and solid, so it will not upset?

A lot of hollow block silos built as far back as 1910 are still in use. M. H. Noble, of Mitchell county, Iowa, has one which was put up 37 years ago.

About 15 years ago, Noble found some of the blocks were crumbling a little. He had heard of silos going down. So he decided to do something to reinforce this one.

He obtained some iron hoops (rods) from an old wooden silo. These he placed around the lower half of his block silo, spacing them four feet apart, so that there would be a hoop between all the door openings.

Between the hoops and the silo, 20-foot creosoted 2x4's were placed upright, two feet apart. Their flat sides were placed against the silo. There were several advantages in using such boards between the rods and the silo:

1. They served to equalize the support.

2. Hoops could be held in place before tightening, by nails driven in the boards.

3. By holding the hoops away from the silo, according to Noble, it was much easier to tighten the nuts.

4. Rods could crush into the wood without danger of crushing the blocks.

Old silos may need extra rods because of the effect time may have on old reinforcing. Many silos had heavy reinforcing wires laid in the mortar at regular spacings on top of a course of blocks.

"In time," remarked Noble, "the silage acid might enter the mortar joints and eat the wires. That would weaken the support."

But new supports won't make a silo air-tight. And silos have to be air-tight to prevent spoilage of feed.

Noble keeps cracks chinked up with mortar. He has had the inside of the silo whitewashed occasionally. The result is not too lasting. Acid from the silage may soon cause the thin covering to deteriorate.

But if you want to whitewash the inside of the silo, some say it can be done as the silo is filled. Use water and cement mixed to about the consistency of cream.

If the cement wash is to be applied as the silo is being filled, the walls should be washed and swept down on the day before. Clean walls are necessary for a good job.

No satisfactory way has been found to treat bad mortar joints except to point up the cracks as needed. For this purpose, mortar is often made of one part of cement and two parts of clean, fine sand.

A thick mortar layer plastered in the sides has proved to be an advantage in some of the newer type silos. The result is a smooth surface and thoro protection of mortar joints.

Farmers have used ordinary clay to keep out the air for one year. Wet the clay to mud-pie consistency. The clay should be free from gravel, however. It can be plastered around the doors as well as in other cracks. A pailful of the clay can be kept with you as you work inside the silo while filling.

Silage will keep in any structure that will hold the pressure and keep the air out.

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To be continued—

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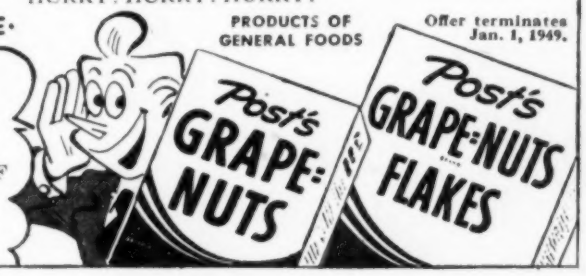

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FOR BETTER SERVICE...PHILLIPS 66

Pigs Appreciate the shade provided for them in the hog pasture of Dale McWilliams, Poweshiek county, Iowa, farmer. Farrowing houses get too hot for comfort on summer days.

How Many Hogs For Early Market?

Some Farmers Heading For September; Others Must Wait For New Corn To Finish Spring Pigs

WHETHER by necessity or intent, Iowa's spring pigs seem to be divided into distinct groups this year. Many who were short of feed felt it was better to raise late pigs and stay in the hog business than to cut down.

So they had sows farrow in late spring or early summer. Pasture and oats will carry the load until new corn arrives. These pigs will not go to market until next winter or spring.

Others who had or bought corn farrowed early pigs. Spurred by summer market quotations, they are rolling the feed into their pigs, to try to sell them early this fall.

Still others are raising pigs farrowed at normal time. But they're growing them on pasture, with little grain. The pigs will be ready for new corn. It shouldn't take long to get them to market when corn is available.

Harry Nauman, Muscatine county, Iowa, says there's a right way and a wrong way, even if you don't have the feed to push your pigs.

He told about a man whose pigs were on good pasture, but getting only whole oats. "That's no way to make a hog," Nauman says. "I prefer ground oats, but, anyway, the pigs need minerals and concentrates. Handled right, they'll gain a lot by the time corn is ripe. This way he'll be a long way from market when he starts feeding corn."

Dale and Dean McWilliams, brothers, operate adjoining farms in Poweshiek county, Iowa. They try to adjust matters so they will always feed all the grain raised, but never have to buy too much.

Both are shoving their pigs right along, with some high-priced corn. If they get to market soon enough, the boys expect the hogs will pay for the corn.

Even so, fall pigs for these three men represent a hedge on spring pig feed costs. "There's likely to be more margin above feed cost with fall pigs than with this spring's pigs," Dean McWilliams says. "Fall pigs might be a better bet than these 1948 spring pigs."

Nauman is keeping 10 sows, Dean 15 and Dale 14 for fall pigs.

No matter how you handle 1948 spring pigs, take good care of them. Give them plenty of shade. "In hot weather, good shade is just as important as water," says Nauman.

"You still see hogs in fields with no shade except in the houses," he pointed out. And a farrowing house can be a pretty hot place."

Another fellow who is keeping his pigs on corn, headed for the September market, is August Van Renterghem, of Poweshiek county, Iowa. He has 104 spring pigs, farrowing within a 10-day period. They're an even, growthy bunch.

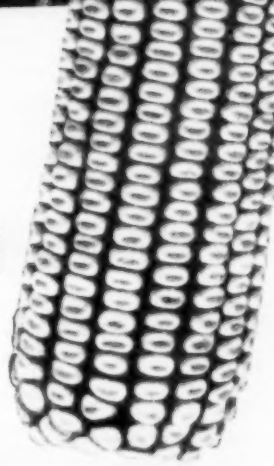
He feels his hogs can show a margin on the corn if he gets them to market before the bulk of the run.

It's hard to let a hog slow up and still do an efficient pork-making job, Van Renterghem thinks. He also wants the spring pigs out of the way. He expects to raise another 100 fall pigs.

On the other hand, pigs grown on oats and pasture may finish out on cheaper corn. They won't go to market until later. But if a bumper corn crop makes new corn cheaper, the later pigs can sell at a lower price and still show a margin over feed cost.

At least, that's the hope of a good many of the hog raisers who haven't had the feed to raise early pigs or to push their pigs this summer.

GOOD STANDS VIGOROUS PLANTS



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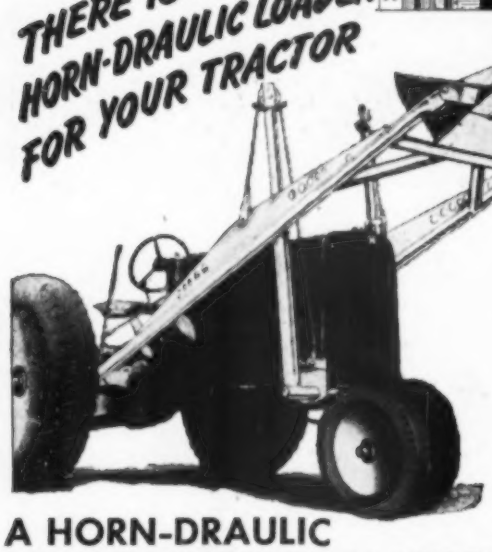

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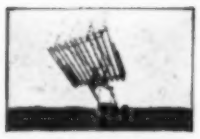
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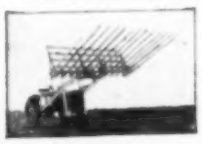
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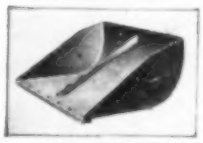
LOADER BOOM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—PUT SOME OF THAT EXTRA CASH INTO SECURITY BONDS—

Trenching Machine is filling the tile ditch which it has dug. Picture was taken on the Howard county experimental farm, operated under the direction of Iowa State College.

Test Tiling Methods On College Farm

Recommend Five-Inch Tile For Laterals, Four-Foot Depth, Lines 84 Feet Apart

GETTING water off land has been a tough problem for lots of farmers. Tile was laid many years ago on much flat land. And the tiling was often done improperly because there was no experience or experiments to go by.

Wet farms resulted. Sometimes the tile is clogged. Sometimes the lines were improperly placed, or too few tile were provided to carry the water.

Farmers want answers to some tiling questions before they spend money to repair or replace their tiling systems. Some answers may come from experiments now being made on the Howard county, Iowa experimental farm operated by Iowa State College.

College men are now starting a cropping test on the Howard county farm to see what actual returns they get. But farmers may be more interested in how the tile is laid.

A trenching machine digs the tile ditch, and the same machine scoops the dirt back in.

Parallel rows of tile are laid 84 feet apart. Five-inch tile is used for laterals, laid four feet deep.

"As long as water can get down to the tile, we like to have it as deep as possible," says Glenn Schwab, tile engineer. "The deeper the tile, the lower the water table. Also, the more thoro drainage you get between the lines.

"A five-inch tile carries one and a half to two times as much water as a four-inch. It also provides better for irregularities in grade."

Here are some pointers brought out by the engineers who are laying out the tile lines:

1. Always map a tiling layout when installed. Then put the map where you won't lose it. This will avoid a lot of hunting later on.

2. A string stretched tightly between stations a given distance above tile grade can be used as a guide in laying tile. The lower few inches of dirt is taken out by hand with a crumber. A mark on its handle to measure up to the string tells when right depth is reached.

3. "Blinding tile is advised. This means throwing some surface dirt on the tile after laying, before you fill the ditch. Surface soil is more permeable to water. This also prevents breaking of tile by rocks when filling is done by machine.

4. Frost will injure tiling—another reason for keeping it deep.

5. Many difficulties with tile drainage systems start at inlets and outlets. Inlets should be avoided—or else protected from possible clogging or washing.

Gullies often form at tile outlets. Water washes out the end tile, then the next, and so on.

To avoid washing out, it was advised that a section of corrugated iron tubing always be set at the outlet. An iron trap-gate, hinged at the end of this, will prevent any animals from entering and possibly clogging the tile.

As to clay vs. concrete tile, engineers say that if well constructed concrete tile is satisfactory. It should be steam-cured. Some cements do not stand up well under extremely acid or alkali conditions. So, thru alkali spots, clay tile is probably best.

Peat beds are a hard problem for tiling, because the peat lets the tile settle. Therefore, if at all possible, tile should be laid below the peat on the original soil.

The question is often raised about using breather pipes to the tile. The theory is to prevent a vacuum when the tile is running full. Some SCS workers think the pipes help.

Engineers say every method should be used to get water moving thru the soil. For plants stand dry weather as well as wet weather better in tiled ground. This is because plants root deeper in drained soil and thus are better prepared for drouth.

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EASY HUSKS IT

Here is picture evidence of what it means to have your own Corn Harvester, rolling out the corn during those few days of favorable husking weather.

A week later and the deterioration of this corn could have been severe, waiting on a custom machine. Borer-weakened stalks within the white square are already brittle and breaking over.

But watch the gentle skill of the Corn Harvester. See those long, low-sloping gathering snouts? Skimming the ground, they'll glide under that low-hanging ear. Spider wheels with curved fingers will gather it in. Rubber husking rolls and spring steel "husking pegs" will strip off the husks gently . . . like the human hand.

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Washington Wire

New Congress May Kill Supports

If 1948-49 U. S. Support Program Costs Too Much, All Commodity Loans May Be In Danger

WASHINGTON, D. C. — The government may have to dig up a billion dollars to keep this year's big crops from breaking below support levels. That's one estimate here.

If support levels stay at 90 per cent of parity thru 1949, the cost to the government might run much higher. If so, the whole farm program may be in great danger.

Suppose consumers see public money poured out next winter to keep wheat, corn and cotton prices up. At the same time, they will see high prices for pork, beef and cotton goods.

Consumers find it hard to realize that cheap corn now does not mean cheap pork for another year. If you gave away corn this fall, it would still be a year before pork would be sharply lower.

What they will see is government support to "keep corn up." And pork will still be high.

Congress might amend the price support law to do away with 90 per cent supports in 1949. The flexible supports, scheduled to start in 1950, might be started at once.

Many farmers would approve of this change. The real risk is that congress may want to wipe out the whole farm support program, or lower supports so far that they won't mean anything.

Failure of the senate to approve the international wheat agreement will hurt the corn market. If a surplus of wheat piles up, a lot will be used for feed.

Wheat for feed competes directly with corn. And there'll be more than enough corn for feed this year without using any wheat.

Farm costs are going up faster than farm returns. Prices paid by farmers for goods used in production during the first half of this year averaged 10 per cent higher than in the whole year of 1948. But farm receipts from marketing only increased 4 per cent.

Corn and wheat storage situation is complicated by new legislation cramping work of Commodity Credit Corporation. Congress denied CCC the right to set up or build new storage facilities.

Actually, CCC should be expanding its own storage space, so it can accept wheat and corn in payment of loans next year. Many farmers may deliver grain rather than pay off the loan. And CCC must have some place to put it.

New congress next January may get busy on this. But a lot of time will have been lost.

What will livestock bring a year from now? Some experts are talking of a 25 per cent drop in beef cattle. Nobody can guess accurately that far ahead, but the estimate indicates the risk of paying high prices for feeder cattle.

Hog prices will drop in the fall of 1949, of course, but how far depends on farm intentions next winter. Some may prefer to grow corn and sell it at loan price, rather than to put it into 1949 pigs.

PAW TUCKER—Paw and Maw Decide To Go Home To Check Up On Things

INSIDE STUFF

HOW LONG IS IT since you have seen oats or wheat stacked for threshing? I saw three stacks on one farm in southern Minnesota on a recent 1,100-mile trip.

▲ ▲

THOSE were the only stacks along the route. Everybody else was combining or threshing from the shock.

▲ ▲

YET MANY OF US can remember when ability to build a good stack was the kind of skill farmers bragged about.

▲ ▲

WHAT OTHER SKILLS are disappearing? For instance, how many farm boys know how to handle a team?

▲ ▲

WHAT SKILLS—now unused—did your grandfather teach your father? What skills that you don't use did your father teach you?

▲ ▲

WHAT OUT-OF-DATE skills have you been teaching your own boy? I'd like some letters from folks with good memories.

▲ ▲

IN SPITE OF 2,4-D, I've seen lots of weeds along the roadsides. And some ramshackle corn cribs that will need a lot of work before they can help the new corn crop.

▲ ▲

IN 1,100 MILES, I saw two colts. And only one was a draft colt.

▲ ▲

NOW WE'LL START to wonder about the frost date. What is the earliest date frost could come this year without causing soft corn?

▲ ▲

LAST ISSUE, this paper said the special session of congress could be worth while. If the Republican congress tried to check inflation and if President Truman started peace talks with Russia.

▲ ▲

AS YOU NOTICED, the nation gained a little on both points. The new anti-inflation law will help a bit. And President Truman is apparently going to try negotiations with Russia.

▲ ▲

SOME WHO SPRAYED with DDT at the last cultivation of corn did a fine job in controlling cocklebur. I'd like to hear from more farmers who had this experience.

▲ ▲

WHEN DID YOU SPRAY? How big was the corn? How heavy was the dosage? A lot more farmers will want to try that next year. The cocklebur crop is still good on too many farms.

▲ ▲

A FRIEND from South Carolina came up here last year, and was mighty impressed with Iowa's 1947 corn. I wish I could get him up this year.

▲ ▲

IT'S A WONDERFUL sweet corn year, too. At our place, we expect to keep on eating sweet corn steady until frost. That July planting looks good for late September.

DONALD R. MURPHY.

Order Next Season's Needs— NOW

BUY AT TODAY'S PRICES—You can't lose. If prices go up, you're protected until June 30, 1949. If they fall, you pay prevailing prices at delivery time.

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COMBINES GOOD QUALITIES IN ONE GREAT CORN!

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MORE FEED PER BUSHEL

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Workday Pointers

Helpful Suggestions for Farmers

FOR QUICK RESULTS on legume seedings, spread limestone that is finely ground.

▲ ▲ ▲

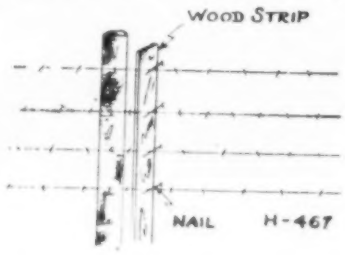
POTATOES should be dug as soon as the vines die, for highest food value and best keeping quality.

▲ ▲ ▲

DAIRYMEN with small herds can breed their cows to high-priced, proved bulls thru artificial insemination service.

▲ ▲ ▲

BARBED WIRE fences look better and hold stock better if the wires are all the same distance apart. A stapling guide can easily be made with an inch board about three inches wide and as many



nails as there are wires on the fence. The stapling guide also can be used to hold the wires against the post while stapling. It's safer than bare hands.

▲ ▲ ▲

CEMENT FLOORS for corn cribs should be at least six inches above the ground level. The floors should have at least one inch slope from centers to edges.

▲ ▲ ▲

MOLDY SWEET CLOVER causes a thin blood condition in livestock. Dr. K. W. Stouder, of Iowa State College, says that sweet clover pastured closely will cause no trouble.

▲ ▲ ▲

CORN PRICES are supported by corn loans and the corn purchase agreement with your county AAA. There is no direct support such as the soybean and flax price supports.

▲ ▲ ▲

FIFTY-POUND PIGS need finely-ground oats to make good gains with little waste. For 150-pound pigs, it makes little difference whether oats are ground fine, medium or coarse.

▲ ▲ ▲

CRIB ROOM on your farm should be compared now with the probable corn crop. Good cribs are necessary for sealing corn. And you should have good cribs for corn covered by the AAA purchase agreement. You take the risk on the quality of the corn in either case.

▲ ▲ ▲

BLOAT DANGER is always present when calves or cattle are turned on pure stands of alfalfa. The danger is greatly reduced when timothy or brome grass is mixed with the alfalfa.

▲ ▲ ▲

FALL SEEDINGS of timothy will rarely fail if the seed is sown in the last week of September, says a southern Iowa farmer. Northern Iowa farmers should probably sow timothy on new clover or alfalfa stands about the third week in September.

FARM LEASE changes should be made now. It might pay to put your lease up to date with regard to who pays for weed sprays and corn borer spraying expense.

▲ ▲ ▲

CORN STALKS are weeds in the soybean fields. Cool mornings or evenings are good times to go over the fields and cut the corn and cockleburs, if any.

▲ ▲ ▲

CLOSE PASTURING in late summer is a good thing for blue grass pastures that are to be torn up, fertilized and reseeded. You save some feed and make the job easier.

▲ ▲ ▲

RYE SHOULD NOT be used for more than one-fourth or one-third of the grain ration for hogs. Hogs don't like rye as well as other grains. And some hog raisers think too much rye causes scours.

▲ ▲ ▲

HOGS WILL NOT GET the kind of Bang's disease that cattle have. But cattle sometimes get the hog type of Bang's. Pregnant cows should never be allowed in the same yard with aborting sows.

▲ ▲ ▲

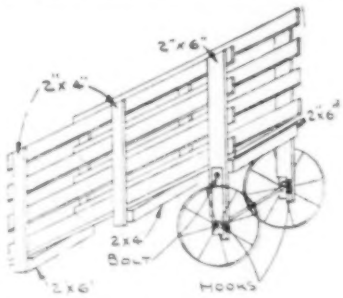
A GOOD ROOF and a good floor are the two main points in a corn crib. It doesn't matter whether the sides are slats, wire or boards. The next most important point is width. Cribs eight feet or less in width keep corn best.

▲ ▲ ▲

FALL JOBS might come in this order: Weed destruction, manure hauling, plowing, fence repairs, building repairs or additions. Of course, the time of fall plowing may be changed according to what is to be done with the land.

▲ ▲ ▲

OLD WHEELS from discarded farm implements can be used to save effort in moving the chute for livestock. The wheels on this one are fixed so they can be folded back under the chute. Short



legs rest on the ground when the wheels are folded back. The folded position can be used to lower the height of the chute or to make the chute stay in place better. The wheels are changed from one position to the other without special tools.

▲ ▲ ▲

EVERGREENS that turn to a brownish or grayish color this time of year may be infested with spider mites. Spray with lime sulphur or wettable sulphur at summer strength, says Wayne Whitney, Nebraska horticulturist. If dust is used, he recommends applications 10 days to two weeks apart.

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HERE'S today's big buy in *time-saving, labor-saving* machinery for the modern farm.

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For details, see your nearest Stinson dealer (listed in the yellow pages of the telephone book), or write Stinson Division, Consolidated Vultee Aircraft Corporation, Dept. W.F., Wayne, Michigan.

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Write for your FREE copy of the booklet shown at the right. It contains valuable information about Vigortone Products and their use on your farm.

Successful Hog Raiser Says:

Herbert Thoma of Bode, Iowa, writes: I have used Vigorton No. 5½ and Dairy Special No. 30 for over fifteen years. Both have given me the very best of results. My experience over this period of years has proved that I can market my hogs at 6½ months without feeding any commercial protein. My system of feeding is a wet mash twice daily, and I also keep a feeder with ground feed available at all times.

I also have used Special Feeding Course 2A for my brood sows and find that this product gives equally as good results in producing strong, rugged litters.

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CEDAR RAPIDS, IOWA

PREFERRED BY FEEDERS SINCE 1912

I'm a farmer

"I'm Not Proud Of The Fact That Three Times More Accidents Happen On Farms Than In Factories."

"MY HOME-TOWN ALLIED AGENT SHOWED ME HOW TO PROTECT MYSELF."

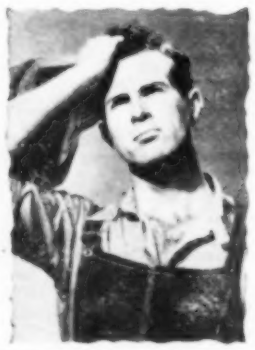
"It took me a lifetime to own this farm of mine but I could have lost it in the second it took that car to crash into my cows that were lost on the highway. As it was, the Allied Mutual home-town agent quickly saw that the folks who hit my stock were only in the [illegible] and I even got a check for the cows that were killed.

"But insurance against the big dangers that can bankrupt you, my Allied Mutual agent advised, during a farm is risky business, what with accidents aside can happen to hired hands or to visitors on the farm or to livestock or tractors and such on the highway. The home-town Allied Mutual Agent knew what I needed right away and saved me from [illegible] had a claim."

FOR THE PRICE OF A FEW BUSHELS OF CORN, YOU MAY SAVE THE COST OF YOUR FARM

See your Allied Mutual Agent

ALLIED MUTUAL CASUALTY COMPANY
Hubbell Building Des Moines, Iowa



When writing to our advertisers, please mention that you read their advertisements in Wallaces' Farmer and Iowa Homestead.

Service Bureau

ARTHUR LEAKE

Nab Parole Violator

A FORMER Polk county deputy sheriff, C. M. Hanson, hired a fellow who said his name was Richard Johnson. Johnson turned out to be a "good" hired man, but Hanson "got curious" when he started "missing things" about the place.

Hanson, who is a Service Bureau member, started checking up, and the trail led to Johnson's door. At Hanson's request, a deputy from the Polk county sheriff's office came to the farm and arrested Johnson.

Johnson was tried on a charge of petty larceny in the court of a justice of the peace. He was given a 10-day suspended sentence.

According to the conditions of reward, that didn't make Hanson eligible for the reward offered by Wallaces' Farmer and Iowa Homestead Service Bureau. But something else did.

After Johnson had been given the suspended sentence, he went back to work for Hanson. But the Hansons still "missed things," including a keepsake coin.

This time, Hanson went to the Des Moines police department. When the Des Moines police arrested Johnson at a roller skating rink, he had the coin in his possession.

Hanson, his suspicions aroused, insisted that the police department check with the FBI. He couldn't believe Johnson was just "sticky-fingered." From the FBI, it was learned that Johnson's real name was Arthur Ray Leake. He was on parole from the Wisconsin reformatory, where he had been committed on a sentence for criminal assault.

Because of his efforts to get to the bottom of the case, a $50 Wallaces' Farmer and Iowa Homestead Service Bureau reward has been paid to Hanson. According to FBI records, Leake has been returned to the Wisconsin reformatory to complete his sentence.

DON'T FORGET to Remember!

Your farm machinery requires extra consideration in extreme hot weather . . . LUBRICATION is most important!

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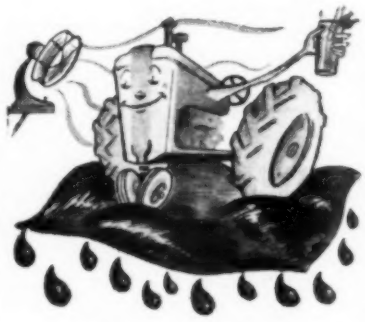
Fine motor oils from which you can expect the finest performance. They lubricate better, make engines last longer. During hot weather comes a critical time when your automotive equipment should be given frequent, clean and thorough lubrication. Deep Rock brands provide . . . BETTER PISTON SEAL, resulting in MORE POWER . . . LESS OIL CONSUMPTION . . . SAVE FUEL . . . they carry off heat and reduce frictional loss to a minimum. They flow fast . . . stay tough.



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Septic Tanks Take Soap

To the Editor: Is there any danger of soap or cleaning preparations destroying the bacterial action in a septic tank?—C. G.

Free use of the ordinary mild soaps is not likely to cause any trouble. Nor will there likely be any danger from the new detergent cleaners.

Care should be taken, however, with the use of strong caustics and disinfectants. The useful bacteria which work in the septic tank to break up and liquefy the waste material are even more easily killed than harmful germs.

So be careful how you use concentrated lye, chloride of lime, chlorine solutions, carbolic acid and other strong disinfectants.

If they are to be used frequently, or say a teaspoonful at a time, they should go into the cellar drain, not the septic tank.

This is one reason we recommend that the laundry waste be discharged into the basement drain. For this material there is no need of bacterial action.—I. W. Dickerson.

Orphan Pigs Need Cream

Nine orphan pigs were fed to an average weight of 38 pounds at 56 days of age, by a Wright county, Iowa, hog raiser. Six other litters of the same breeding, which suckled their mothers, averaged only 36 pounds at the same age.

The very fast gains of these orphan pigs was made on cow's milk, to which cream was added. The pigs were self-fed the milk after the first few days. Here is the letter giving the record.

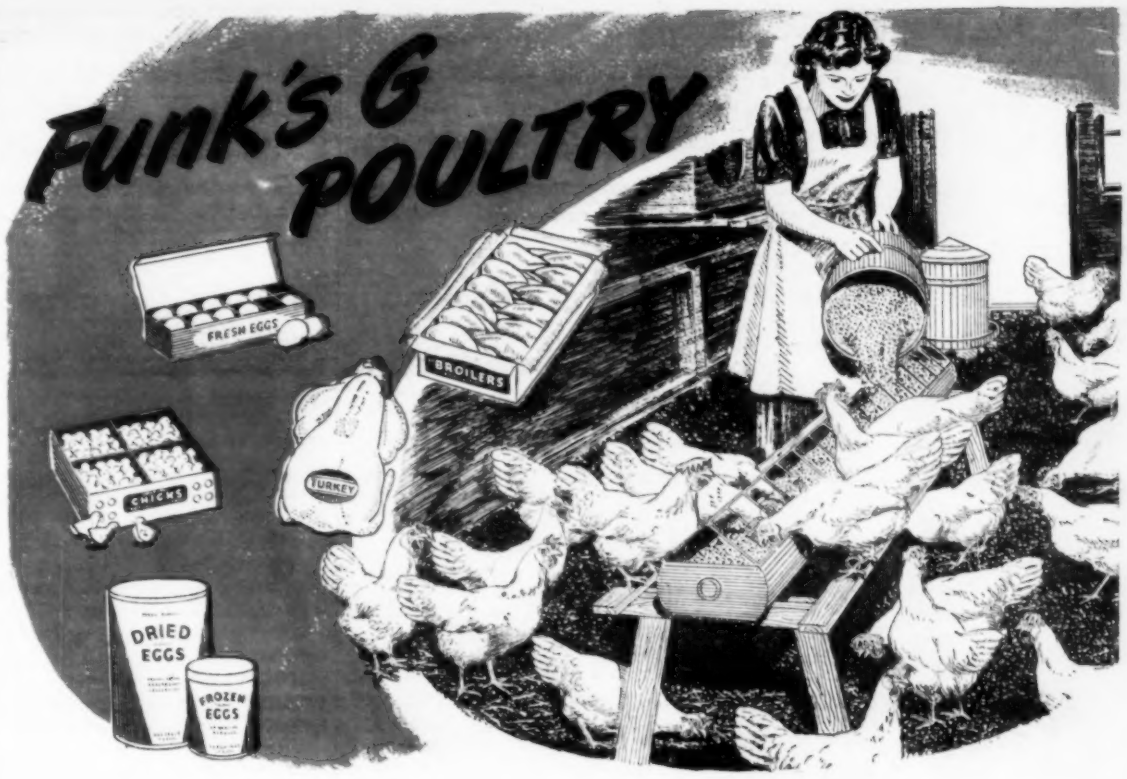
To the Editor: I took a litter of nine pigs from their mother at 24 hours of age, this spring, put in one runt from another litter, and raised them by hand. I used whole cow's milk, added 10 per cent cream by volume, and put in one teaspoon of syrup per quart.

I started feeding them with a nipple, but had them drinking from a shallow pan in one day. I was feeding them every three hours, day and night, for several days. . . . Then I self-fed their milk with a five-gallon chicken waterer.

I reduced them to whole milk the fourth week and to skim-milk the sixth week, and "weaned" them the eighth week. They were creep-fed hulled oats, corn and protein the same as my other pigs.

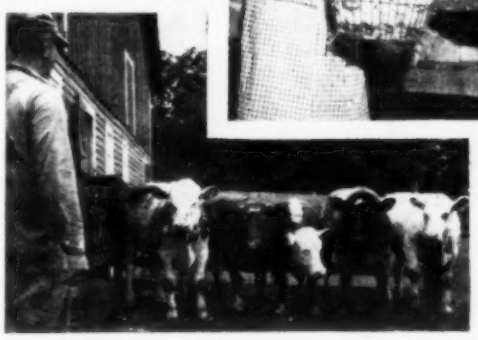
At 56 days, these nine pigs averaged 38 pounds, while six other litters of same breeding, suckling their mothers, averaged 36 pounds each.

It is my understanding that the sow's milk tests around 8 per cent butterfat, and the reason for adding the cream is to make the milk rich enough so that the pig does not have to drink so much and get "pot-bellied." — Bernard Collins, Wright County, Iowa.



THE "LITTLE RED HEN" with her white, barred and buff sisters packs 15% of America's corn into her crop; about the same share as dairy cows and more than beef cattle, horses and sheep combined. In the three billion dollar poultry industry, corn makes up more than half of the scratch grain and 28% of the mashes fed to chickens and turkeys. Poultry raisers and feed manufacturers like Funk's G for poultry rations because the consistent quality of G-Hybrids simplifies the formulating of quality, balanced rations.

G-HYBRIDS FURNISH DEPENDABLE FEED SUPPLY for Poultry Flock, Cattle, Hogs on Quarter Section



Mr. and Mrs. Joy Hendrickson and son, Junior, have built a balanced, profitable livestock program around 65 acres of Funk's G-Hybrids on their 160 acre farm near Carpenter, Iowa.

With a carload of cattle, 100 head of hogs and 400 laying hens, the Hendricksons must be assured a dependable feed supply each year. "Last year was a poor corn year," Mr. Hendrickson explains. "And even then we got 50 bushels an acre. Most years we figure to harvest 65 to 70 bushels an acre."

"I've used Funk's G for three years," Joy reports. "It's a good corn." And one of the good things about raising G-Hybrids is that there's always enough corn for the baby beeves that Junior has shown at the county show and state fair and is grooming for the International this year. Corn aplenty too, for the 400-hen laying flock—that's a "plus value" from Funk's G that Mrs. Hendrickson likes.

FREE CORN DATA NOTEBOOK

Ask your G-Hybrid Dealer or write for handy pocket-size notebook that gives tables for figuring yields, grade, moisture and shelling corrections, crib, and silo capacities. Plenty of blank pages for your own notes.

FUNK'S G HYBRIDS

FUNK BROS. SEED COMPANY
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AS YOU CULL HENS OR RID YOURSELF OF LOW PRODUCING COWS . . .

ALL WEAKLINGS have been Culled Out of

Tomahawk Hybrid Corn

● Selective inbreeding . . . scientific crossbreeding . . . careful pollinations . . . all have contributed to culling out the weaklings in Tomahawk hybrids. That's why . . . when Tomahawk hybrids go into your fields you can be certain of growing a crop that represents only the best qualities of a long line of sturdy ancestors . . . a line that is packed with the stamina to grow . . . that has exceptional standing ability . . . that can resist disease and unfavorable weather conditions . . . *and mature at the right time.*

Ask your nearby Tomahawk dealer about this hybrid corn from which all faulty offsprings have been culled. See him before you order seed for your 1949 crop. See him *now* and get the varieties best suited for your soil and growing conditions.

See Us at the Fairs: Iowa State Fair, Aug. 25 to Sept. 3; North Iowa Fair, Sept. 3-7; Spencer (Clay County) Fair, Sept. 13-18.

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CRIB UP TO 10 BU. MORE CORN PER ACRE

- Get your corn out before bad weather sets in—before the corn goes down.
- Early-picked corn is cleaner—less shattering and corn loss in the field. Increases harvested yields as much as 10 bushels per acre.
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- Higher market prices when you sell.
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Two sizes to fit your needs. Portable. Low drying costs. Tested and proved. WRITE for information and prices.

DURABILT MFG. CO. 659 Arnold Avenue AURORA, ILLINOIS

Good Year For Feeders

NEXT year will give farmers of Iowa a chance to do something they are very fond of doing—process their feed into livestock products. Feed will be cheap as compared with prices of livestock, says Francis Kutish, Iowa State College agricultural economist.

Kutish points out that prices of corn probably will be right around the loan level this fall, if crops hold up to prospects at the present time.

Some farmers who are short of storage space may be forced to sell below the loan price. Feeders can figure on $1.25 to $1.50 per bushel for corn this coming winter.

Here is the way the livestock feeding picture looks to Kutish:

HOGS: Hogs appear to be the best bet for processing feed into livestock during the next twelve months.

Prices of hogs will go down seasonally later this fall. But the drop probably will not be as sharp as it normally is. At the low spot, the hog-corn ratio will still be favorable for feeding your corn to hogs.

The winter low spot in prices of hogs will come later than it usually shows up—probably after Christmas.

Farrowings were later than usual this spring. And a good many farmers are planning on finishing their hogs on new corn. Both of these mean later marketings. But the hog-corn ratio will still be profitable at the winter low spot.

DAIRY: Milk cows will follow hogs in chances for making a profit in processing your feed next year. The dairy output has been going downhill for several years now. Dairymen have been culling closely.

POULTRY: Poultrymen raised fewer chickens this year than last year—15 per cent less. The egg output next year will fall about 5 per cent short of the output in 1948.

The poultry flock is efficient at processing feed into salable food products. Yet the birds do take a lot of work for each dollar of income.

BEEF: The feeding of beef cattle probably offers the poorest prospect for profit to the farmer from processing feed this coming year.

When there is lots of feed in the corn belt, the farmers bid against each other in a scramble to fill their feed-lots with cattle. It appears that this fall will be no exception.

Judging from the present outlook it seems likely that farmers will bid against each other this fall, and set the price so high as to give most of the profits in the beef business to the ranchmen of the west.

Heavy cattle seldom pay for the feed they consume. The feeder has to figure for margins on the market.

The chances for a margin are not as good as usual this year. But it is possible to make calves return the pay for their feed. The brightest spot in a dark cattle-feeding picture is a program of feeding only calves and light yearlings.

Feed Cheap OATS TO YOUR SHOATS

"They Raise Fine Pigs"

Feed cheap oats to your pigs this summer. No corn at all, until finishing time. Oats make a wonderful developing feed, if you BALANCE them with the growing elements lacking in oats alone. Balance with . . .

Sargent Minral Meal

This tried-and-proven oats supplement truly does a job. It gives your growing pigs a BLEND of rich concentrates to put real G-R-O-W in oats rations. Many proteins, many vitamins, many minerals . . . 23 different balancers—all in one great supplement to give your oats added punch for better gains. It's ready to feed. Put it before your pigs and they do the rest.

FREE! A practical, low-cost oats feeding plan for your pigs. Tear out, and send for your Free copy today.

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SARGENT PLANTS, Des Moines
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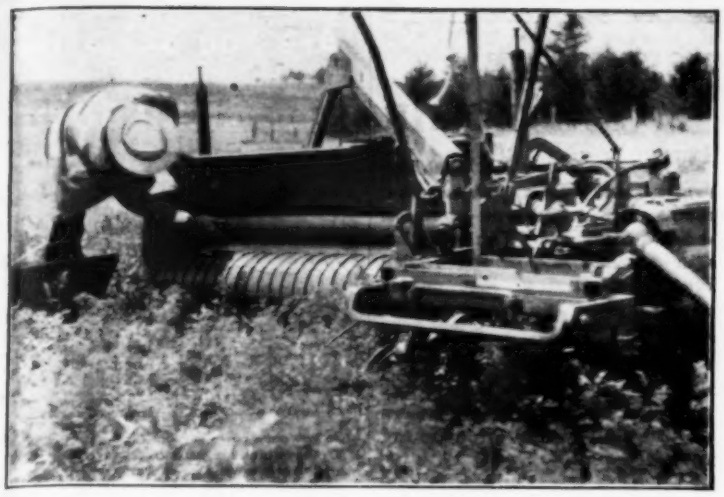
Waverly, Mo. Algona, Iowa



Hay Crusher is a new machine which follows the mower bar and and breaks the stems of legume hay so the stems and leaves will dry together. Saves both drying time and hay quality. This machine is on the Russell Anderson farm, Jones county, Iowa. A visitor is inspecting cylinder which picks up the hay just back of mower bar.

Iowans Ready For State Fair

Fair Officials Expect New Attendance Records; Bigger Livestock Entry List

ALL Iowa looked toward Des Moines this week as farm and city families in every county made plans to enjoy the fun and competition of Iowa's own big show—the 90th Anniversary State Fair.

On thousands of farms, proud livestock, fine field crops and the fanciest products of needlework and cookery were made ready for judges' inspection and an expected crowd of half a million spectators.

Actually, many farmers will be at the grounds two days ahead of the public opening. Next Wednesday and Thursday, Aug. 25-26, are preparation days.

Fair Secretary L. B. Cunningham says all indications point to the largest and most successful exposition of livestock and farm products since World War II.

No figures are yet available, but the plain bulk of the entry blanks told fair officials that cattle and swine entries would far exceed last year. Horses and sheep were expected to equal 1947 entries.

All traditional Fair contests—quiz derby, old fiddlers, team pulling, horseshoe pitching, needlework, cooking and baking, baby health, rural family living, and countless others — were drawing entries on a scale that assured tough competition, and entertainment for the folks who watch.

National championship automobile races will highlight three afternoons for the grandstand spectators: Friday, Aug. 27; Sunday, Aug. 29, and Friday, Sept. 3. At least 40 famous drivers are expected.

Thrill shows are slated for two afternoons, Saturday, Aug. 28, and Thursday, Sept. 2. A new startler by the "Queen of Dynamite" will climax the shows, and there will be a new program of smashes and crashes by daredevil drivers.

Harness and running horse races, with "big time" features to speed up the program and provide better races for the entries as well as the spectators, will be the main afternoon attraction before the grandstand, Monday, Aug. 30, thru Wednesday, Sept. 1.

Every evening, the "State Fair Revue of 1948" will provide three hours of music, dancing and comedy entertainment for grandstand crowds. The revue will be followed each night by the biggest display of fireworks ever shown in Iowa.

For Your Tractor, Truck, Bus or Car

Champlin HI-V-I is a High Viscosity lubricant . . . . refined by a double solvent process that cleans your motor as it lubricates and keeps it clean.

Compare Quality . . . . . .
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Compare Price and you'll agree there is no finer oil made for all around farm use.

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Producers . . . Refiners . . . Distributors of Petroleum Products since 1916.

See your friendly Champlin Dealer today . . . Ask for HI-V-I, the Motor Oil with

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STANDS UP AT BOILING AND ABOVE

FLOWS FREELY AT ZERO AND BELOW

PROTECT YOUR HOGS

against **MANGE - FLEAS - TICKS**

- All steel construction
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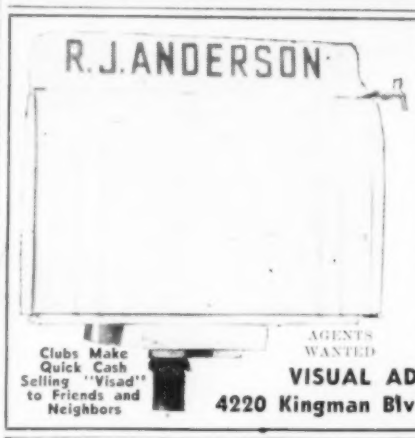
- Fits any size swine
- Pays for itself first year
- No valves, springs or gadgets to get out of order

Cenlab's hog oiler may be used indoors or outside the year 'round. Base may be fastened to concrete or wood. You may deduct 2% for cash with order or $14.95 net C.O.D. plus freight charges. Mail your order at once to be sure of delivery.

TOWN AND COUNTRY FEED CO.
BENSENVILLE, ILLINOIS



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Your name on both sides of this amazing new name plate shines at night! Easily read by day. Individual! Distinctive! Helpful for doctors or visitors to find your home no matter how dark the night. Rust proof aluminum. Easily installed. Letters 2½ in. high. Plate 4 in. high. Fits 19 in. or 24 in. mail boxes. Okayed by mail carriers and doctors. Be first in your community to have "Visad." Write for low prices or see us at your State Fair (Ag. Bldg.)

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OF SCHLESWIG, IOWA, writes:
"I like Genuine Pfister Hybrids because I do appreciate their feeding value. In feeding hogs and cattle extensively and more corn is required than raised on your farm, each feeder is careful in buying corn, because quality feed produces finished livestock. Looking over the edge of a truck load of corn it is easy to recognize Pfister Hybrids . . . Pfister's strong healthy kernels of uniform size and low moisture content give me the assurance of buying good corn down to the box floor. For the growers it is larger yields, quicker sales and more profit."

and . . .

Myrle Mohr OF VICTOR IOWA
says: *"I like Genuine Pfister Hybrids because after as backward a year as this has been, my Genuine Pfister-164 came through with flying colors, outyielding all my other hybrids by 15 bu. per acre."*

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In 966 yield checks made last year in farmers' fields across the corn belt, Genuine Pfister Hybrids won 80.4% of the time. The winning average showed that they out-yielded competitive hybrids by 8.1 bu. more shelled corn per acre. This extra yield of 8 bushels on just one acre pays for a bushel of seed. Plant Genuine Pfister, the *winning* hybrid, — for plantability, standability, huskability and YIELD! Have your P.A.G. Dealer help you select the Genuine Pfister Hybrids that are winning 8 OUT OF 10 TIMES in your locality.

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VISIT US AT STATE FAIR

We hope you'll visit Wallaces' Farmer and Iowa Homestead headquarters when you come to the Iowa State Fair. You will find us in the east end of the Varied Industries Building, just across the street from the grandstand.

We'll have a place for you to sit down and rest or visit for a few minutes. And it's one of the few places on the grounds where you will find plenty of drinking water—ice-cold.

Hog Feeding Studied

Hog raisers have to carefully watch their feeding programs because hogs are more likely to have nutritional disorders than other four-footed farm animals, in the opinion of Dr. Wise Burroughs, Ohio State University.

He pointed this out at a conference on animal nutrition held at the university recently.

Hogs grow rapidly, have a fairly short reproductive cycle, often are confined indoors or in small quarters. They do not have a rumen, as do cattle and sheep.

Therefore, all vitamins and key amino acids must be furnished as such in hog feed, since the pig doesn't manufacture them in his digestive tract, Burroughs said.

J. L. Krider, University of Illinois, explained how research is making it possible to recommend more efficient rations for hogs at various ages and weights.

"Hog production profits are pretty well determined by the time weaned pigs are driven into the feed-lot," Damon Catron, Iowa State College, told the conference.

It pays to start thinking about feeding market hogs about four months before they are farrowed, he said.

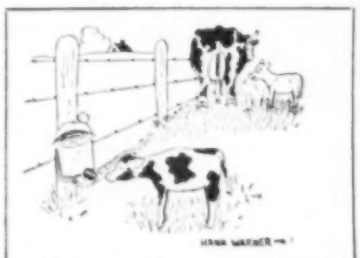
Scientists at the meeting joined in calling for further fundamental research in animal nutrition.

Here Are Facts About Silage

How do you figure the capacity of a silo? Does corn silage have more feed value than alfalfa hay? How much does it cost to make a ton of silage?

You'll find the answers to these questions in a new booklet called "Silage Facts." It's packed with a lot of valuable dope about silage and silos.

You can get a copy by writing to Editorial Department, Wallaces' Farmer and Iowa Homestead, Des Moines, Iowa. Just ask for "Silage Facts."



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Do your cows milk dry? After using a Marlow a few weeks, one man reports an increase of 10 gallons of milk per day from 20 cows.

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SAFE. Low 10" vacuum means a safe, gentle, easy suction soothing to tender udder tissues. *No Tug . . . No Pull . . . No Crawl!*

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POWER FEEDING SYSTEM

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Grinds any feed—green, wet or dry. This feeder really takes in loose roughage, bundles or bale flakes and no monkey business about it. Large capacity guaranteed with ordinary farm tractor. Grinds grain . . . or shapped corn with roughage or separate. Has [illegible] load and swing hammers. Get full information on this real honest-to-goodness Grinder. Write

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UNITED HYBRID

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Used five months

This mill has drag feed and 12,000 miles on the motor. Mounted on a 1941 Ford truck. Motor tested and two speed rear and four new tires. This mill has the very largest capacity on the market. Priced to sell immediately.

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OUTSIDE STUFF

LIKE almost everyone else in the West Liberty Swine Improvement Association, President Howard Berry, Johnson county, Iowa, was surprised that this year's litter weights were lower than last year.

• • •

"WITH the weather we had this spring, compared with a year ago, I wouldn't have been surprised at a 25 per cent increase," Berry says.

• • •

IN MUSCATINE county, Iowa, I visited with Gerald Nevins. He and his father have a nice herd of purebred Durocs which have developed out of Gerald's 1943 FFA project.

• • •

ONE of the prettiest places I have seen is Harry Nauman's, also in Muscatine county. They certainly have done a lot of work on their yard. They plan to move to town this winter. I hope the place goes to someone who appreciates a nice yard.

• • •

A FRIEND of mine was talking about the story in the August 7 issue—the one about the man who bought another hog water fountain and saved 57 hours' work and 149 miles of tractor travel.

• • •

HE SAID: "You know, the way a lot of us do so much unnecessary work reminds me of a true story. Camped in the Ozarks one time near a hill-billy cabin. This cabin was on a high hill. People got their water from a spring about 40 rods down the hill.

"Came washday and two women started carrying water from the spring to the wash tubs at the cabin. They each had a couple small candy buckets. They made trip after trip.

"Finally, I asked them why they didn't carry their clothes to the spring and do the washing there.

"They said: 'Guess we could. We just never thought of it.'"

• • •

MAYBE someone ought to start up a bunch of neighborhood work-analysis clinics. You probably could tell your neighbor where he's wasting steps.

• • •

NO WONDER weeds are plentiful year after year. One survey shows a pigweed can produce 117,500 seeds. A common mustard plant can produce 2,700 seeds, or there can be 72,500 seeds on one lamb's-quarter plant.—W. D. Inman.

"Have you any that smells like new-mown hay? My boy friend's a farmer."

The SAFE, EFFICIENT, LOW-COST way to
DRY WET CORN
IN CRIBS, RINKS, PILES or GRANARIES

SIEBRING SAF-T-HEAT DEHYDRATOR

SEE SIEBRING AT THE FAIRS!
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October 4-October 10
Lot 191

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NO "SOFT" CORN WORRIES!

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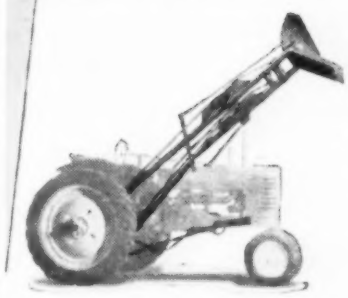
SIEBRING MFG. CO. DEPT. WF-1 GEORGE, IOWA

Midwest Better by design

POWERPLUS Hydraulic Loader



Powerplus Hydraulic Loaders have *less moving parts — more lifting power — cleaner appearance.* Cylinders are honed for perfect smoothness, greater efficiency. Midwest Powerplus Loaders save time — save parts expense, get more work done.

Check these special Midwest features:

- Fingertip Hydraulic Control
- No Clumsy Front-end Equipment
- Unobstructed View
- Special Cup Cylinders
- Fast Mounting
- Attaches to All Popular Make Tractors

You'll handle all loading jobs in a hurry. The hydraulic control stops and starts loader any distance from ground. All parts are electrically welded. Give greater strength — make POWERPLUS LOADERS longer lasting.

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America's Finest Earth Moving Scoop

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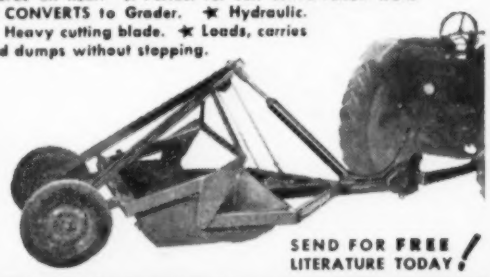

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First Aid for Stock

Minerals, Vitamins Keep Sows Up

To the Editor: I have two sows that have gone down in the back and hind legs. Is there any way to get them up again?—H. M., Woodbury County, Iowa.

The heavy drain from carrying and nursing a litter causes a sow to go down. Bones become brittle and crack easily.

That means your sows need lots of calcium and Vitamin D. They should have bright green alfalfa, a mineral mixture and irradiated yeast in their grain. Keep them in the sun when it's not too hot.

"Limberneck" Caused By Virus

To the Editor: Can you give me a cure for "limberneck" in my spring chickens?—Mrs. A. O., Jones County, Iowa.

Occasionally, birds that appear to have "limberneck" are found to be heavily infested with worms which have weakened them.

Most common cause for this symptom, however, is a virus disease known as "avian leukosis." Poultry research men have studied the disease for several years, but no cure has yet been found.

Closely cull the flock. Sell off all that show signs of the disease, such as a pale iris (the colored area of the eyeball). Don't try to raise other birds on the same soil for a few years.

Oil May Cause Sows To Abort

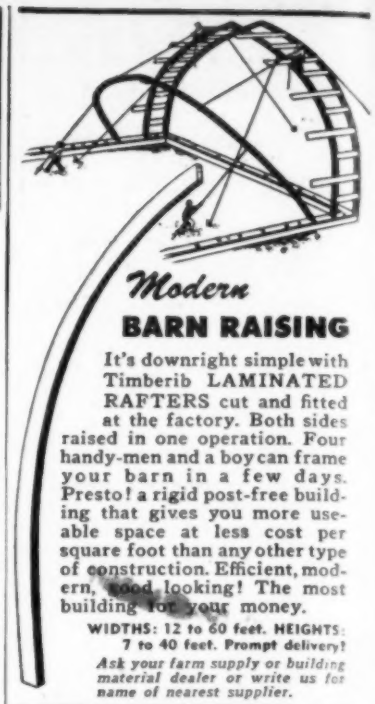
To the Editor: I used mange oil on my sows three or four weeks before farrowing time. Six lost their pigs, four had one each, one had six, and one eight. A test showed they did not have Bang's. Could I use the same boar again?—H. A., Page County, Iowa.

Oiling the pregnant sows might have caused the six of them to lose their pigs. It would not be responsible for the one-pig litters.

Feed a good, well-balanced ration before and during the breeding period. Try to have sows on good legume pasture at that time.

Don't turn the boar out with the sows. Pen-breed one sow at a time. Allow a day between services.

"I still think we should get a horse. I'm afraid you're expecting too much from those vitamin pills."



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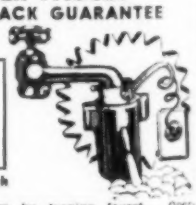

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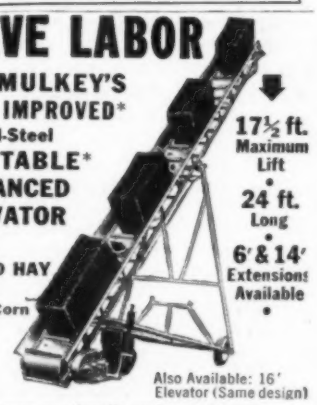
with MULKEY'S NEW IMPROVED* All-Steel PORTABLE* BALANCED ELEVATOR for BALED HAY and Ear Corn etc.



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★ One man can handle and operate.
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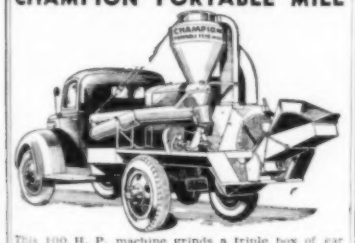

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New Test For Nitrogen

LABORATORY soil tests can tell you when you are getting enough limestone, phosphate or potash in your soil. It's another story in the case of nitrogen, the plant nutrient which can absolutely limit the yield of corn.

According to Roger H. Bray, Chief, Soil Survey Analysis, University of Illinois, available forms of nitrogen in soils, such as nitrate and ammonia, vary in amount. They vary not only from season to season, but week to week or day to day.

The actual amount found in the soil at the time of any one test is likely not to mean much as an indication of the amount available to the crop during the whole growing period.

You can't check nitrogen fertility with a laboratory test once a season and be sure you have plenty of nitrogen. Several checks will show you whether nitrogen is plentiful, or lacking.

You can make such tests yourself. The job is easy and simple. You use a white nitrate testing powder Bray and his associates have developed.

This powder is dusted on the sap in a notch cut on the lower part of a growing corn plant. If there is plenty of nitrogen in the soil, the powder turns pink or red.

White tests, or failure of the powder to change color, mean lack of nitrogen. A really severe drouth could cause a white test. But Bray says that drouth is seldom so severe as to cause the powder to stay white.

Bray suggests four tests—mid-July, early August, mid-August and early September. If the powder is pink or red all four times, fine!

If the juice from the stalk turns the powder pink or red three times out of four, the corn will be held back only slightly by lack of nitrogen in the soil.

But if three or four times out of four the test is white, yields will be held back moderately to severely, Bray says.

If the tests show you should get more nitrogen in the soil, Bray suggests using legumes more often in the rotation. Or use lime, phosphate or potash to get more legume growth when they are grown. More farm manures and more commercial nitrogen also are remedies.

If you are interested in securing this powder to test the nitrogen supply on your corn fields, write to this publication for names of companies selling the powder.

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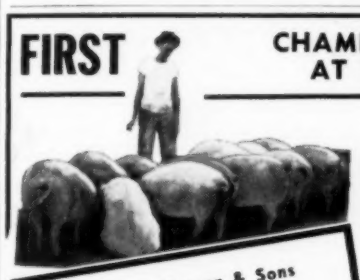

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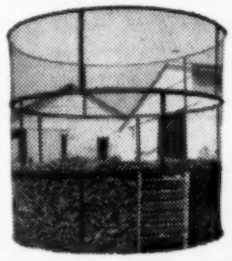

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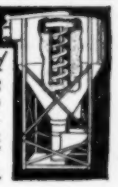

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Chemistry To Rescue

Quack Grass Killer

Both the ammonium salt and the sodium salt of trichloroacetate (TCA) were found equally effective in controlling quack grass in tests under greenhouse conditions at Michigan Agricultural College. Approximately 150 to 200 pounds per acre were required for a complete kill of well-established grass.

Ammonium thiocyanate was not as effective as the ammonium and sodium salt of TCA on grasses when used at equal concentrations.—R. F. Carlson and J. E. Moulton, Michigan Experiment Station Bulletin, May 1948.

Michigan results are similar to those reported at the North-Central Weed Control Conference by C. J. Willard and H. B. Neville, of the Ohio experiment station. Ohio tests showed good control of a vigorous quack grass sod with either 125 or 250 pounds of ammonium trichloroacetate per acre.

2,4-D In Winter

Successful winter spraying with an ester of 2,4-D is one of the new twists to chemical weed control. In Michigan, Agronomists Keith Barrons and L. L. Coulter, of the Dow Chemical Company, have announced that stumps sprayed in near-zero weather during the past three winters have reacted in the same way as stumps sprayed in the summer.

Chemical used was a 44 per cent isopropyl ester of 2,4-D. Barrons and Coulter recommend spraying stumps at any convenient time after cutting—late fall, winter, early spring or summer.

The use of ester in fuel oil or kerosene is recommended for stump treatment.

Safer Insecticides

A new insecticide named "Pyrenone" combines complete safety with quick knock-down power and high mortality to insects. This insecticide includes a number of concentrates obtained by combining either piperonyl cyclenone or piperonyl butoxide with pyrethrum.

Use directly in contact with human foods or livestock feeds is possible. It is effective against a wide range of insect pests.—U. S. Industrial Chemicals, Inc.

Parasites Are Robbers

The livestock industry is being robbed of 125 million dollars per year by internal livestock parasites.

E. A. Woelffer, University of Illinois veterinarian, says internal parasites can be controlled. Phenothiazine, carbon tetrachloride, hexachlorethane, sodium fluoride and carbon di-sulfide are all used to fight certain parasites.

Your own veterinarian can give you the best answer as to which parasites are causing damage, which medicine is best to use, and what is the proper method of treatment.

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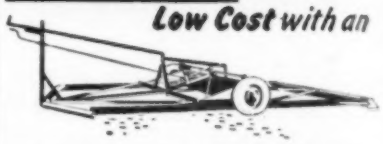

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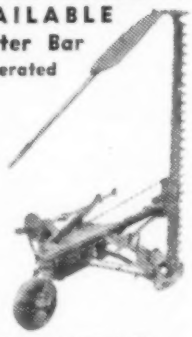

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Lower Litter Weights

YOU'D think 1948 was a much better year for spring pigs than 1947. You'd expect larger litters, fewer losses, more litter weight.

Things didn't work out that way in the West Liberty Swine Improvement Association. When the summary of farrowings and 56-day weights was released, members found they had weaned fewer and smaller pigs than in 1947.

The association serves members in Johnson, Muscatine and Cedar counties, in Iowa. Supervisor Cecil Bowie pointed out that while the average number farrowed per litter this year was 8.9 pigs, the same as last year, the percentage weaned had dropped from 77 to 75 per cent.

Even with this decline, the association's figure of 6.7 pigs was a tiny bit above the reported state average of 6.6 spring pigs weaned per litter.

A check was made this spring on twenty-seven herds, with 434 sows farrowing. Adjusted to a 56-day basis, the average weight per littter at weaning time was 138 pounds, as compared with 173 pounds a year ago.

The average pig weight at weaning time this spring was 20.6 pounds. A year ago, it was 25.2 pounds.

Bowie points out several factors may have influenced the decline in performance this spring. One may have been the feed shortage; perhaps the sows and gilts were skimped before farrowing.

Chief factor, he feels, may have been the fact that the weather was a little too good.

This spring, the weather was good and field work beckoned. Pigs may have been neglected.

Bowie points out that members who concentrated on saving pigs at farrowing time were able to increase litter weights and averages in most cases.

Long farrowing periods are also blamed for some of the pig losses. A good many members had litters farrowing over a period of six weeks. Pigs with so much difference in age don't do well when allowed to run together, he says.

Barrows Judged On Meat Yield

Hogs will be judged by the meat they produce in the carcass contest at the 1948 National Barrow Show. It will be held at Austin, Minn., September 13-16.

Crossbreds and hybrids will meet purebred hogs in the contest. Barrows will be judged on foot September 17, then slaughtered that night and judged on the hook next day.

Any exhibitor at the show, including truckload entries, can enter one barrow in the carcass event. First prize is $100.

Truckload division is open to all hog raisers. The 15 hogs in an entry may be purebreds, crossbreds, grades or any combination. Eight of the 15 must be barrows. There are two weight classes.

Hog men interested in the show should write to P. J. Holland, National Barrow Show, Austin, Minn.

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Congerville, Illinois

Homemaking Department

Edited by ZOE MURPHY

Sonny Lohff, of Ida county, Iowa, has a wonderful time on the merry-go-round his father made him out of an old wagon wheel.

"What Can I Do Now?"

"WHAT can I do now?" or "What can I play with?" are wails that are familiar to every mother.

But country children shouldn't have to ask too often what to play with. Space is always available, and materials to work with. If parents combine these things, children will have few idle moments.

Mr. and Mrs. Willard Lohff, Ida county, Iowa, have provided their small son with a wagon-wheel merry-go-round. Mr. Lohff found a sturdy wheel on the place. He sank an axle into the corner of the yard and put the wheel on it.

Mr. and Mrs. Willard Lohff, Ida county, Iowa, didn't buy their son a tent—he made one out of some old blankets.

Sonny Lohff can play alone or share it with his friends. When he is alone, he often gives his pets rides on the wheel.

There is a lot of action with this sort of equipment, and certainly a minimum of danger if the post and wheel are sturdy. It can solve the "keep busy" problem for many farm children.

In the same neighborhood, Mr. and Mrs. Henry Ruhser have a couple of play horses that would thrill any child.

One horse is made of a stout buttermilk barrel. After taking out both ends, it was stretched on a stout rope between two trees. Mr. Ruhser added a bit of fur for a tail at one end of the barrel.

The older children have a wonderful time straddling the barrel and trying to stick to it. A smaller "bucking bronco" is made of a nail-keg similarly placed.

Farm children aren't much for sitting still. They all seem to like the thrill of the pendulum swings. There are board swings, straw bags and old tire cradles on many farms.

The small son of Mr. and Mrs. Roberg Schumann had an orange crate airplane hung pendulum style. This swing had a propeller in front. The top was boarded over, leaving just enough space to slip into the cockpit. The effect was an airplane which was convincing enough to satisfy any small pilot.

A family on the border between Cherokee and Ida counties is among the most enthusiastic users of the pendulum bag swing. The children climb a ladder before taking off on their bag for what looks like a dangerous ride.

These rides might be dangerous, as the ladder is a high one. But the father is particular to buy new swing ropes every year. And, instead of tying the rope directly to the limb, he secures it thru a heavy chain that takes the brunt of the rub against the limb.

Sturdy teeter-totters and trapeze bars can be made at home. The hurdle support for the teeter can be made next time Dad goes to the blacksmith shop. And a stout 2x8 plank can be fastened to it with steel connections.

A hammock is a good summer play item. And there are plenty of trees for shade and support. Children enjoy hammocks, and even the old folks, after a hot, busy day, can find rest and relaxation in one.

Mr. and Mrs. Lohff didn't buy a tent for their son—they stretched old blankets over the clothes-line. Sonny spends hours there playing bandit or Indian. And then he has the pleasure of feeling he made the tent himself.

The ingenuity of the parents is a little more taxed when the weather is bad and the children come indoors to play.

A ply-wood ping-pong table set up on horses is fine for older children. It can be hinged in the middle, so that it can be folded out of the way when not in use. The net, paddles and balls are inexpensive, and can be easily obtained.

Mrs. George Hoffman, Jr., Ida county, made a desk and play-box for her two small children from apple boxes. She sanded, painted and decorated them. The desk is just the right size for a small boy.

It's good to remember that even an eight or nine-month-old child will be fascinated by working straws into his mother's kitchen strainer. Certainly, a cheaper or more available toy couldn't be found.

Mrs. George Hoffman, Jr., Ida county, Iowa, made a desk and a play-box for her small sons, out of apple boxes.

COUNTRY AIR

By ELIZABETH C. WHERRY

IS DOG FENNEL a noxious weed? Or is it just a weed? It scarcely seems like a "plant out of place," for it is so definitely a plant of certain places. If I admit that it doesn't smell very good, may I be permitted to say that I think it's rather pretty with its fine-cut leaves and little fried-egg flowers?

* * *

In this day of pigs on clean ground, and (because of last year's corn crop) no cattle on feed, dog fennel certainly takes over in the vacant lots. If lots have sloping drainage, as they should, it seems to me fennel prevents washing when the lots are not in use.

A strainer and broom straws make a good plaything for a small child.

* * *

The other night, while out at the home farm, I tagged around the barn lots with the boy who operates the farm, while he pointed out to me where the new fences are to go.

* * *

We followed the neat, narrow, little paths the cows had made thru the dog fennel on their way to pasture. The pungent smell of fennel and barnyard dust, with the late July odor of oat fields and young corn pollen, brought back childhood days.

* * *

Barefooted and pig-tailed, I had loved to patter along the narrow paths among the fennel and feel the soft dust between my toes.

* * *

The line in a cultivated ex-hog lot, where fennel stops and oats or corn or alfalfa begin, is very definite. Fennel doesn't scatter here and there like a field weed. It sets me wondering why I know so little about fennel. It's one of those things so common, perhaps, that nobody ever thinks anything about it.

* * *

When the dog forsakes the path and chases an imaginary rat off into the fennel, the whole spongy green mass, spangled with its tiny fried eggs, quivers as tho it were on springs.

* * *

Several of the local library board ladies sorted a gift of books from the library of Judge Milo Smith. We grew very tired and grubby handling the heavy, dusty books, but the physical fatigue is nothing compared with the mental anguish we suffered as we discarded learned old volumes we knew would be of no use to the generation that uses our library.

* * *

We wondered as we sorted over the legal books, historical and biblical commentaries, just when an attorney (or anybody else, for that matter) of today would have time to follow a hobby of reading on World War I or II.

* * *

Judge Smith had read widely upon the Civil war. Many volumes were interlined and marked and interspersed with indignant notes of disagreement with the authors.

* * *

One book on decisive battles of the Civil war roused him to pencil on the fly-leaf that a news reporter was no person to decide which battles were or were not decisive. How the judge would have suffered under the authoritative flood of books by today's war correspondents!

* * *

Yesterday, we talked with a young wife of a food and agriculture specialist just back from two years in Germany. Strip-cropping, to the German, is not a matter of soil conservation, but ownership. The narrow little strips of land parceled out to the villagers emphasize as nothing else the resources for ancient methods of farming.

* * *

There's no room for a tractor. A cow and a horse—or just a cow—is "horse power" enough for a narrow strip of wheat land, or to go from one side of the village to the other, to other strips of land a villager may have the good fortune to own.

* * *

Gleaners pay for the privilege of picking up not only remaining straws, but grains of wheat left on the ground.

* * *

So you think you're busy—what with tomatoes coming on and vacationing relatives beginning to arrive.

* * *

Quiet, friends! Unless you're a 4-H leader. Two of my best friends are 4-H leaders. One is concentrating on a demonstration team that has the earmarks of State Fair material.

* * *

Subject-matter is right down the leader's alley; the girls are qualified; they're lovely girls; they have a good demonstration; but—oh, dear!—they get the giggles when they practice!

* * *

The other friend is busy with a routine demonstration on her hands, but the chief project just now is organizing some 19 girls for a five-day camping trip. Meals, cooks, food, bedding, entertainment, lists for this and lists for that. Details, details, details—the life of a 4-H leader!

* * *

What a lot of four-leafed clovers St. Peter is going to need to replace stars in the crowns of weary 4-H leaders as they go to their reward!

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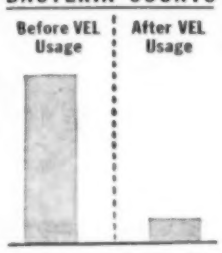
Just look at this chart! It shows how *much* lower the average weekly counts were on the farms tested—before and after pasteurization—when the milking equipment was cleaned with Vel. By using the faster, easier VELocity method, now the busiest farmer can keep *all* his milking equipment cleaner—get more money for his milk! Clean *your* milking equipment with Vel for low bacteria counts!



Bacteria counts were dangerously high when ordinary cleaning methods were used. By switching to Vel, bacteria counts were slashed!

LOOK at the results (above) of one of the most important dairy experiments in history! Proof that Vel reduces bacteria counts! Not a soap...not a bactericide, Vel *slashes* bacteria counts by cleaning milking equipment cleaner. Vel eliminates milkstone and leaves no milk fat or slime to feed bacteria.

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Yes, and two of the most important suppliers of milking equipment in the country recommend Vel: The makers of Perfection Milkers and the distributors of Farmcrest Milking Machines and Separators!

FREE BOOKLET—For complete details on the VELocity method of cleaning milking machines, separators, pails, strainers, etc., write Vel, Dept. M-605 at Jersey City 2, N. J.

*VEL is the trademark of the Colgate-Palmolive-Peet Co.

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Dishes and glassware gleam without wiping when they're washed with Vel. No soap scum or greasy film to polish away. Vel cuts grease faster, more completely than soap! Vel is wonderfully mild to hands—contains no alkali!

Mrs. T. J. Spain, of Butler county, Iowa, in her attractive and modern kitchen. She has an electric stove, hot-water heater, and plenty of cupboard space.

COOKERY CORNER

SOFT GINGERBREAD

1 cup ribbon cane molasses
1 cup sugar
½ cup shortening
1 cup boiling water
1 teaspoon soda
2 cups flour
¼ teaspoon salt
1 tablespoon ginger
1 teaspoon cinnamon
1 teaspoon allspice
½ teaspoon nutmeg
2 eggs

Cream the molasses and sugar and shortening. Add the water in which soda is dissolved. Sift the flour with the salt and spices. Mix with first mixture, then add eggs. Bake one hour in slow oven.—G. H., Black Hawk County, Iowa.

DEVILED CABBAGE SALAD

6 hard-boiled egg yolks
2 teaspoons prepared mustard
½ teaspoon salt
2 cups cabbage, shredded
1 teaspoon sugar
5 tablespoons chopped sweet pickles
3 tablespoons vinegar
1 teaspoon mayonnaise
Paprika

Mash egg yolks, add sugar, mustard, salt, vinegar and mayonnaise. Mix well and add to the other ingredients. Sprinkle with paprika.—Mrs. Fred Fienup, St. Louis County, Missouri

CHOCOLATE ANGEL PIE

2 egg whites
⅛ teaspoon salt
⅛ teaspoon cream of tartar
½ cup sifted granulated sugar
½ cup finely chopped walnut or pecan meats
½ teaspoon vanilla
¼ pound semi-sweet baking chocolate
3 tablespoons water
1 teaspoon vanilla
1 cup cream, whipped

Beat egg whites with rotary egg beater until foamy; add salt and cream of tartar, and continue to beat until mixture will stand in soft peaks. Add sugar gradually, and continue beating until mixture is very stiff. Fold in nut-meats and one-half teaspoon of vanilla. Turn into lightly greased eight-inch piepan and make a nest-like shell, building sides up half an inch above sides of pan. Bake in 300-degree oven for 50 to 55 minutes. Cool.

Place chocolate and water in a saucepan over low heat. Stir till chocolate is melted. Cool till thickened. Then add one teaspoon of vanilla and fold into the whipped cream. Turn into meringue shell. Chill about two hours before serving. Makes six to eight servings.

APPLE CAKE SPEED DESSERT

1 cup sifted flour
1½ teaspoons baking powder
¼ teaspoon salt
4 tablespoons shortening
1 egg
½ cup corn syrup
¼ cup milk
3 medium apples, pared, cored and sliced thin
½ teaspoon cinnamon or nutmeg
1 tablespoon butter
Light cream

Sift together flour, baking powder and salt. Cut in shortening. Beat egg, add one-fourth cup corn syrup and milk. Add to flour mixture, stirring enough to dampen. Spread batter in greased nine-inch pie plate. Arrange apple slices evenly on top of batter. Bake in a 400-degree oven for 35 minutes, or until apples are tender. Serve warm, cut in wedges, with light cream or sauce. Serves six.—Mrs. Alvo Crawford, Thomas County, Nebraska.

FRICADELLER

¾ pound lean beef and ¼ pound lean pork, finely ground
1 egg
Salt and pepper
Milk

Put ground meat into a mixing bowl, beat in salt, pepper and egg as a binder. Add milk, little by little, and keep on beating until meat has taken up between one-half and one pint of milk and is fluffy.

Melt a generous lump of butter in a frying-pan and drop meat in by tablespoonfuls. Cook until done and serve with brown gravy. For four persons.

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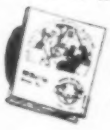

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These designs may be secured for 20 cents each, in coin or stamps, (coin preferred). Send all orders to the Pattern Department of Wallaces' Farmer and Iowa Homestead, Des Moines, Iowa. Send also for fall and winter copy of FASHION. Price 25 cents. This book contains much information and many useful hints, and a complete pattern is included free. CAUTION: Be sure to include your name and address when you send in your order.

Delectable Vine-Fresh Flavor with Sure-Jell's 1-Minute Boil!

Follow this foolproof Sure-Jell recipe exactly, for super results!

GRAPE CONSERVE

5 cups prepared fruit; 2 lemons; ½ pound seeded raisins; 1 cup chopped nuts; 7 cups sugar; 1 box Sure-Jell.

To prepare fruit: Slip skins from about 3 pounds fully ripe grapes. Add 1 cup water to pulp; bring to a boil. Simmer, covered, 5 minutes. Sieve to remove seeds, add chopped skins. Measure 5 cups into *large* saucepan. Add 1 tablespoon grated lemon rind, ¼ cup lemon juice, raisins, and nuts.

To make conserve: Measure sugar, set aside. Place saucepan of fruit mixture over high heat. Add Sure-Jell; stir until mixture comes to a hard boil. At once stir in sugar. Bring to *full rolling boil, boil hard 1 minute*, stirring constantly. Remove from heat, skim, ladle quickly, paraffin at once. Makes about 13 six-ounce glasses.

—ready for the jelly makers! Make *plenty* of this delicious, fresh-flavored conserve — the easy, speedy, Sure-Jell way!

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Hi-lex controls bacteria effectively and economically

says Dakota Dairyman

"We make every effort to control bacteria," says Leo Riegel, Route 2, Fargo, N. D. "Our 55 head of Golden Guernsey get the Hi-lex treatment before every milking. We use only one cup of Hi-lex for eight gallons of warm water as a disinfectant solution for washing udders. This same solution is best for washing all milking equipment, too."

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Spray For Thrips

Last season, we had the heaviest infestations of gladiolus thrips on record. This tiny but mighty insect is only about one-sixteenth of an inch in length, and looks like a tiny fly.

But it can ruin all of your glads. Thrip injury is a little difficult to detect. It makes the blooms look as tho they had been burned by the sun. The florets have a withered, parched appearance. This is because the thrips have extracted the juice in different areas of the flower.

Main source of infestation is often the bulb itself. While every reputable grower takes every precaution to treat every bulb in winter storage, it still is a good idea to dip all bulbs regardless of where you purchased them.

Dipping will also get rid of little patches of scab, etc.

After extensive research, D. D. Craeger, of the Illinois State College, recommends this solution: To make one and one-half gallons of dip, take one-half ounce of new improved ceresan (the measuring spoon in the can equals one-half ounce) and one and one-half teaspoons of grasselli spreader.

Mix with a small amount of water. Never touch this solution with the bare hands, for severe burns can result. When mixed well, add one and one-half gallons of water at 70 degrees temperature.

Submerge the bulbs from 15 to 30 minutes—never longer. Drain and plant at once.

This will take care of thrips on the bulbs, but the insects can fly in from your neighbor's patch. And many do just that.

So you must spray, and spray early. Thrip damage occurs long before the spike has emerged from the bulb.

DDT is very effective as a spray to eradicate thrips. Purchase 50 per cent wettable DDT. Dissolve 14 level tablespoons of powder in a small amount of water. Add to it three gallons of water, and apply with a pressure sprayer to both sides of the glad plant.

The best time to spray is when the plant is getting its third leaf, and then follow up with several sprayings at weekly intervals.—Mrs. Feye, Jackson County, Iowa.

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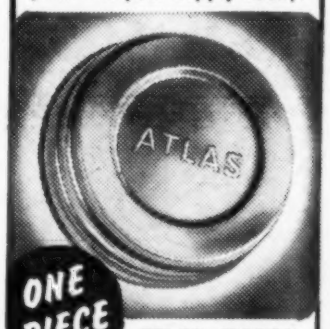

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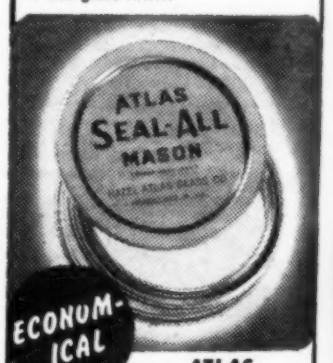

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Mrs. John Brantsen, Sioux county, Iowa, has an auxiliary gas stove which she uses for hot weather canning.

Personal Problems

Flowers Are Important

DEAR LUCILE: Every spring, when we plant the garden, I want to put in a few rows of flowers, and my husband just has a fit. Says they clutter up good space; make it hard to cultivate the vegetables, etc. I tell him that they're just as important to me as tomatoes, but he will never give in. Do you think I'm being silly to want some flowers?—Ann.

Ann: Certainly you aren't being silly to want some flowers. You're just being silly to argue over it. Isn't there any other place you can plant a few flowers—as a border at the side of the house; in a row along the fence, or some other spot where there is good soil and sun?

Men sputter around a lot over things like this, especially if they think it annoys their wives, but usually it's all sputter. Some morning you'll find him standing at the flower rows, lost in admiration of a petunia!

Beware a Roving Eye

DEAR LUCILE: I've been going out with a fellow for the past few months. I like him, and he says he loves me, too, but he does not exactly act like it. When we're alone, he's all loving attention, but when we're around other girls he flirts with them and makes a fool of me.

What shall I do? How can I tell him I don't like it without hurting his feelings? Should I believe that he loves me?—Dora.

Men like this don't make very good husbands. They keep their wives miserable and ashamed by their carryings-on with any woman who happens to be about.

If you think enough of him to put up with this—knowing it's a disease for which there's practically no cure—then handle him with gloves and keep on. But if you think you'd be good and sick of it—which most women would be—then I'd tell him that I wasn't interested in being second fiddle.

And I don't think I'd worry too much about whether it hurt his feelings or not. Chances are, he hasn't any very deep ones.

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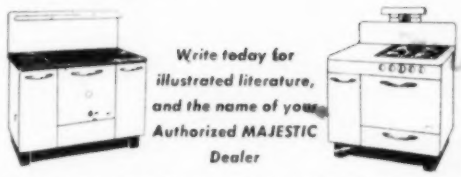

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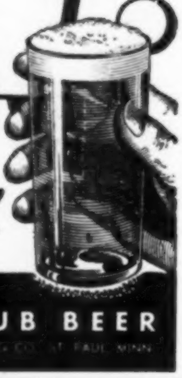

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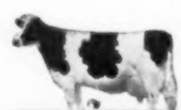
Dairy Cattle Congress Grounds

Waterloo, Iowa, Saturday, Sept. 4



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NOTE: This is the original "Dairy Spot of Iowa" sale established at Waverly in 1933, but for past years held at Cattle Congress grounds., with more modern conveniences to both buyer and seller. All cattle personally inspected and selected by the manager. Breeders solicited are those interested in placing some of their top producing and breeding animals in one of the better sales of Iowa. Foundation animals of many breeders, now prominent throughout the middlewest, were secured in this sale. Dozens of breeders are reporting records from **500** to **700** lbs. fat on cows and heifers from these sales. The great cow making **903** lbs. fat on **2-X** this year for Gingerich and Esh, Wellman, Iowa, was purchased in the 11th "Dairy Spot Sale." Other buyers report classification on animals from these sales of "**Good Plus**" to "**Excellent.**" The Management is proud to report a less than two per cent adjustment request over a 5-year period. **FARMERS, DAIRIES, BREEDERS**, here you can select quality commercial cows or choice breeding and foundation animals from reliable Iowa consignors. All recent **T.B.** and **Bangs** tested. Many calfhood vaccinated . . . . some officially. Complete **4** generation catalog sent **FREE** on request. Kindly mention this publication. Address

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MILAN, MISSOURI, SEPT. 9th

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A choice offering from 3 fine herds, **MIKE COCHRAN**, Green City, Mo., **A. W. HERINGTON**, Milan, Mo., and **RAY H. WATSON**, Harris, Mo. Several grand young cows with calves and rebred, excellent bred heifers and attractive open heifers. Sires in service include **BELMAR JR., RLS EMULOUS 8th, ESTONIAN W. PRINCE HOWARD 100th** and **BARBARIAN PRINCE M. 15th**. The families are **GEORGINAS, BARBARAS, WITCH OF ENDORS, ZARAS, MISS BURGESS, ELBAS, JILTS, JUANERRAS** and other popular tribes. Best in breeding. The quality will please. Plan to attend. Ask now for **FREE** catalog. Kindly mention this publication. Address

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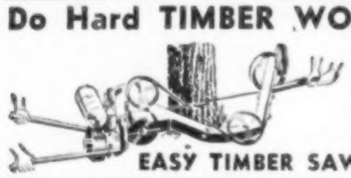

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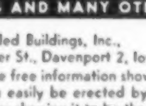

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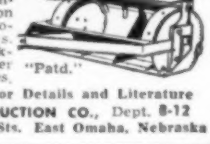

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BONDS and STAMPS

Our Ads Are News!

The Farm Flock

House Best Pullets

THE preparation of pullets for the marathon of laying eggs all the year around is like training long-distance runners for competition in the Olympics. It requires not only careful selection, but wise training and a knowledge of the rules of the game, according to W. R. Whitfield, Iowa State College poultry specialist.

Selection is of the very first importance. Beware of any slow-maturing birds, with thin breasts, pin-feathered bodies and small combs or wattles. Avoid birds with white legs among yellow-skinned breeds.

If your pullets have previously been self-fed, continue with self-feeding. In flock demonstration work at Iowa State College, self-fed pullet flocks were compared with hand-fed birds.

The self-fed pullets produced an average of about two dozen more eggs per hen; they ate less feed per dozen eggs laid, and they made 80 cents per bird more profit than those which had been hand-fed.

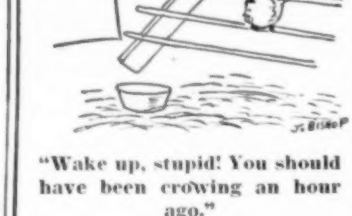
The changing of birds to the self-feeding plan after raising them on the other method does not always bring successful results, but it can be done.

Use plenty of feeder space—four inches or more for each bird. Allow half of the feeder space for oats, one-fourth for concentrate and one-fourth for shelled corn.

Don't make any change in the method of feeding, and house the birds at the same time. Housing the birds is a shock, because it requires a physical adjustment.

Don't delay housing your pullets. Ordinarily, it is best to get rid of the old hens by the time the pullets are four months old. Then clean and disinfect the laying house.

Be very careful when you move the pullets to the laying house. If you can, move them at night, and frighten them just as little as possible. Be sure to count the birds that are to go into the laying house, so you can allow plenty of room.



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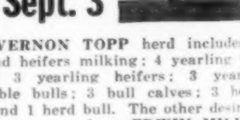
and other choice consignments

RALSTON SALE BARN

Sheldon, Ia.
Fri., Sept. 3



The **VERNON TOPP** herd includes 16 cows and heifers milking; 4 yearling bred heifers; 3 yearling heifers; 3 yearling serviceable bulls; 3 bull calves; 3 heifer calves and 1 herd bull. The other desirable consignments are from **EDWIN MILLER**, Rock Valley, **R. E. PERKINS**, Estherville, and **WALTER KRUSE**, Sheldon, Iowa. Good quality, rich breeding and the profit-making sort. Plan to attend. Ask for **FREE** catalog. Please mention this publication. Address

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Sheldon, Iowa

Auctioneer, B. B. Allen
M. W. Boney, Fieldman

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Clark Schafbuch Herd, Ladora, Iowa

Located 11 miles west of Williamsburg, road W., and 2½ miles west of Ladora on No. 6. 4 miles south on gravel

Thurs., September 9th

45 HEAD

15 COWS — 9 BRED HEIFERS
6 YEARLINGS — 12 HEIFER CALVES
3 BULL CALVES

The Herd Sire, **BEH'S PANSY'S HARKNESS** 70644 and 12 daughters selling. He is a son of Judd's Bridge Harkness (in heavy service at the Ingold's), a son of Colonel Hark. His Dam is **PANSY OF SWISS BROOK FARM** 61689, with an Honor Roll Record of 840 lbs. fat in 365 days at 4 years. Also 4 daughters of **ROYAL JACOB of S.G.A.** 68822, who is a grandson of Jane's Royal Many outstanding animals in the pedigrees of this richly bred herd, such as **DUKE DAN, COLLEGE CADET OF LEE'S HILL, BUTTERNUT BELL BOY, NERO'S CHEERLEADER OF WALHALLA**, and others. **D.H.I.A.** records up to 432 lbs. fat. A **DISPERSAL** offers the very best. Ask now for **FREE** catalog. Kindly mention this publication. Address

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NORTH ENGLISH, IOWA

Advertisement

From where I sit ... *by* Joe Marsh

They let the Wives in!

The ex-GI's of our town entertained their wives the other night at one of their "feeds" of hamburger sandwiches and ice cold beer. (The girls hinted they'd like to see what went on when their husbands got together!)

Being pretty wary, the boys provided chicken sandwiches and cake and cider—for those wives who might have other tastes. But though they were grateful for the choice that was offered them, most of the wives agreed that hamburger sandwiches and beer were a mighty pleasant combination.

After the "feed" the husbands took their wives on at a game of darts, and later they played the game "Indications." The party broke up around ten, with the boys agreeing that it was highly successful.

From where I sit, it's this companionship among young couples today, and their moderation in a sensible beverage like beer, that's won the younger generation such a wholesome reputation.

Joe Marsh

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FEMALES SELL AFTERNOON STARTING AT 12:30 P. M.
BULLS SELL IN EVENING STARTING AT 7:30 P. M.
LARGEST PUREBRED ANGUS SALE IN U. S. THIS FALL

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30 YOUNG COWS WITH BIG CALVES AT SIDE
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17 MOST DESIRABLE BRED HEIFERS
47 BEAUTIFUL OPEN HEIFERS

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12 O'clock Noon

150 HEAD—90 young cows, many fresh, a number of **Heavy Springers**; **27 Bred Heifers** for first calf, a select group; **26** fine open heifers; **6** young bulls; **1** herd sire (4-year-old). **RAVENGLEN SENATOR GERBEN 862865**, by **King Bessie Senator 741205**, "Excellent" six times **All American**. Herd sire is sired by such bulls as **SEGIS MATADOR GRINDETIA COLE** 1100993, **U-MO-MAN-O-WAR NERO GALAXY** 7[illegible], a son of **SHUNGAVALLEY HOMESTEAD LASS** 1740237, and **CLIFFVIEW ORMSBY TRITOMIA** 875732. Herd mostly bred to the herd sire that sells. This herd has been under D.H.I.A. Test for many years. Close to a 500-lb. B. F. Herd average in 1946 and 1947. Several 600-lb. cows sell. All cattle **T.B.** and **Bangs** clean. Official health papers furnished. Herd mastitis free. The present price of milk is good, feed prices are coming down. Plan to attend this opportunity sale. For catalog or further information write

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In Midway sale pavilion south edge of

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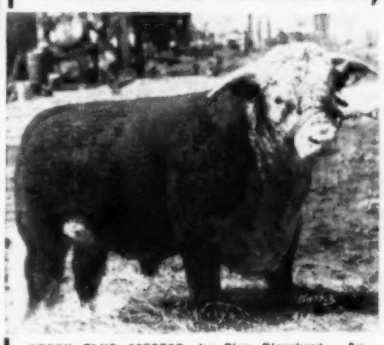

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78 HEAD

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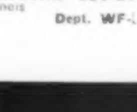

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DOGS

Notice—Unsatisfactory dogs must be returned within time specified by advertiser. Buyer always pays express charges (both ways if dog is returned) unless advertiser states in advertisement that he will do so.

GENUINE ENGLISH SHEPHERD PUPS
Guaranteed heelers. Year's trial, training instructions. Males, females or spayed females.
HIGHVIEW KENNELS CEDAR FALLS, IOWA

Purebred Border Collies English Shepherds
America's most useful dogs. Puppies all ages. Both sexes. Choice colors. Faithful workers. Satisfaction guaranteed. We breed and sell our own stock.
FAIRMOUNT FARMS, - CEDAR FALLS, IOWA

BEST YET
ENGLISH SHEPHERD PUPS
Guaranteed to bring home the cows. Year's trial. Choice of sex. Spayed females a specialty. Priced right.
CLOVERDALE FARM ACKLEY, IOWA

SHEPHERDS, COLLIES
ENGLISH SHEPHERD OR COLLIE PUPS for watch and stock. Also registered Scotch collies. Reasonable.
ZIMMERMAN FARMS FLANAGAN, ILL.

GENUINE ENGLISH SHEPHERD PUPS
(Heelers to footing.) (Year's trial.) Guaranteed. Training instructions. Males, females, spayed females specialty. (Several partly trained.)
EMIL RUMFT
Reinbeck, Iowa

WANTED TO BUY
Good English Shepherd or Collie Pups
Write Box 1, Wallaces' Farmer and Iowa Homestead

FOR SALE
DOGS of the HUNTING BREEDS
Coon, Opossum, Mink, Squirrel, Fox, Rabbit dogs. Ten days trial. Write for full information and literature. Prices reasonable.
J. N. RYAN KENNEL MURRAY, KY.

DOGS

COLLIE PUPPIES
Also stud service. Hertzville and Arken blood lines. A. K. C. registered.
CEDAR ACRES KENNELS on Highway 67 in CAMANCHE, IOWA

NATURAL BOB, BLACK AND WHITE
ENGLISH SHEPHERD
PUPPIES
Guaranteed
WALLACE A. WINEGAR BRANDON, IOWA

AIREDALES—REGISTERED F. $15—M. $25
COLLIE—SHEP. F. $5—M. $10
COCKERS—REG. F. $15—M. $10
Fox Terriers, extra good. Male or Female $10
MINK KITS. Dark or mutation
VAN GORP KENNELS & MINK RANCH
PELLA, IOWA

Shomont Collies
Workers—Companions—Guards. Write for free lists.
SHOMONT FARMS AND KENNELS
MONTICELLO IOWA

CANADIAN
YORKSHIRE SALE
45 Bred Gilts
A really good offering of imported purebred Yorkshires. Plan to attend this sale.
TUESDAY, 7:30 P. M.
AUGUST 24th
SALES BARN
Wellman, Iowa
P. M. Swartzendruber, Sale Mgr.

40 Registered Ayrshire
IMPORTED FROM CANADA
Sell at Auction, 30th and L Streets, across the street from stock yards
Omaha, Nebraska
Monday, August 23rd
SALE AT 1:30 P. M.
40 first and second calf heifers. 19 fresh or due in August and September. 21 due in October and November. All young, sound, well bred and ready to return a good income this fall. Calves from the fresh cows sell separately with papers furnished. I selected every animal first hand, from good Ayrshire herds in Ontario, Canada. They are qualified in breeding and individuality for foundation use. The service sires to which they are bred are outstanding, well bred lot of good bulls with above average as to outstanding milk and butterfat records and show ring performance. The butterfat test is very high throughout the offering. Tabulated pedigrees available for reference. All from accredited T.B. herds, recently T.B. and Bangs tested. Most all calfhood Bangs vaccinated.
H. C. McKELVIE, Owner
30th and L Streets
Omaha 7, Nebraska

TWENTY-FOURTH ANNUAL
STOCKER AND FEEDER SALE
At our yards 10 miles north of Mason City
MANLY, IOWA, THURS., SEPT. 9th
2,000 HEAD All of these cattle are good quality range bred HEREFORDS. There will be STEERS, STEER CALVES, HEIFER CALVES and HEIFERS. Those who feed this year should make money. Guaranteed weights will be given on sale day. COME! Buy at your own price. The price is left entirely to farmers and cattlemen. Full details will appear in another issue.
OSWALD STRAND & SONS, MANLY, IOWA
Auctioneers: Ernie Weller, Dorsey, Sheimo and Frieberg J. E. Halsey, Fieldman

Coming Livestock Sales

ABERDEEN ANGUS

Sept. 9—Mike Cochran, A. W. Herington and Ray H. Watson, Milan, Mo.
Sept. 11—Third Annual 4-H Club Calf Sale, Harris Farms, Osceola, Iowa.
Sept. 13—Missouri State Angus Show and Sale, Fayette, Mo.; Dan E. Miller, Secy.
Sept. 15—North-Central Missouri Breeders Assn., Chillicothe, Mo.; Lewis Anderson, Secy.
Sept. 20—Harrison County Breeders Assn., Bethany, Mo.; H. R. Sheets, Mgr., Eagleville, Mo.
Sept. 20—Central Iowa Breeders, Marshalltown, Iowa; Clair G. Mason, Mgr., Marshalltown, Iowa.
Sept. 21—Mercer County Breeders, Aledo, Ill.; Hugh McWhorter, Secy.
Sept. 24—Dispersion, H. C. Johnstone Sons, Galva, Ill.; Hugh McWhorter, Sale Mgr., Aledo, Ill.
Oct. 1—Northeast Missouri Breeders, Memphis, Mo.; W. R. Dierks, Secy.
Oct. 2—Harry C. Meredith, Searsboro, Iowa.
Oct. 13—Interstate Aberdeen Angus Breeders Association, Sioux City, Iowa; P. K. Pratt, Secy., Walnut, Iowa.
Oct. 14—Dispersion, Frank Whitehead, Kahoka, Mo.
Oct. 16—Central Illinois Breeders, Congerville, Ill.; Simon F. Lantz, Secy.
Nov. 9—Chariton Valley Breeders Assn., Kirksville, Mo.; Otto Shinn, Secy.

HEREFORDS

Sept. 16—Henry Saggau, Denison, Iowa, and Harold Johnson, Extra, Iowa; sale at Denison, Iowa.
Sept. 16—Sisk Bros., Grant City, Mo.
Sept. 21—J. E. McBride, Columbus Jct., Iowa.
Sept. 30—Wiese Bros., Donohoe, Iowa.
Sept. 30—Chas. Wooster, Manning, Iowa; sale at Audubon, Iowa.
Sept. 30—Putnam & Harley (Dispersion), Bedford, Iowa; S. J. Harley, Mgr.
Oct. 4—Midiowa Hereford Assn., Marshalltown, Iowa; Mrs. Harold J. Peterson, Secy., Lisconb, Iowa.
Oct. 5—North-Central Missouri Assn., Chillicothe, Mo.; Mrs. Arlan Cowgill, Secy., Milan, Mo.
Oct. 8—Cedar Valley Hereford Sale, Cedar Rapids, Iowa; Dean Jacobs and Thos. Sherlock, Mgrs., Rte. 3, Oxford, Iowa.
Oct. 12—Reed-Hayden-Granfield Sale, at Creston, Iowa; T. M. Hayden, Mgr., Creston, Iowa.
Oct. 16—Southeast Iowa Breeders, Mt. Pleasant, Iowa; N. K. Hartley, Secy., Hillsboro, Iowa.
Oct. 22—Creston Hereford Breeders, Orient, Iowa; Lloyd H. Woods, Sale Mgr., Creston, Iowa.
Oct. 29—Northeast Missouri Assn., Memphis, Mo.; Geo. E. Leslie, Jr., Secy.
Nov. 26—Circle A Hereford Farm, Morris, Ill.

POLLED HEREFORDS

Oct. 6,7—Iowa Polled Hereford Assn., Des Moines, Iowa; Leigh Curren, Secy., Mason City, Iowa.

SHORTHORNS

Sept. 13—Southwest Iowa Breeders Show and Sale, Red Oak, Iowa; Malcolm D. Lomas, Mgr.
Sept. 22—Fred Gugisburg, Renwick, Iowa, and P. A. Rasmussen & Sons, Goldfield, Iowa; Merv. Aegerter, Mgr., Seward, Neb.
Sept. 27—Marshall County Breeders, Marshalltown, Iowa; Geo. H. Lewis, Mgr.
Sept. 28—R. C. Roeger & Sons, Salisbury, Mo.; sale at Chillicothe, Mo.
Oct. 3—Fox Bros., Rippey, Iowa.
Oct. 4—Northwest Missouri Breeders, Rockport, Mo.; Jim Meyer, Secy., Maryville, Mo.
Oct. 6—Gilbert Kardel, Walcott, Iowa; Penning-roth Bros., Wellman, Iowa, and Carlton Reed, Kalona, Iowa; sale at Walcott, Iowa.
Oct. 7—Minnesota State Sale, Redwood Falls, Minn.; N. T. Findhal, Secy., Waterville, Minn.
Oct. 12—Dispersion, Blotz Bros., Dodgeville, Wis.; Hal Longley, Sale Mgr., 16 S. Locust St., Aurora, Ill.
Oct. 22—Breeders Sale, Abingdon, Ill.; Hal Longley, Mgr., 16 S. Locust St., Aurora, Ill.
Oct. 26—Ted Whitford & Sons, Volga, Iowa; S. Davis & Son, Wadena, Iowa; Fred Rothlisberger & Son, Elgin, Iowa.
Oct. 29—George Struve & Sons, Manning, Iowa.
Oct. 30—Helfred Farms, Des Moines, Iowa.

POLLED SHORTHORNS

Oct. 5—Sioux Empire Polled Shorthorn Club, Sioux Falls, S. D.; John F. White, Secy.
Oct. 11—Iowa Polled Shorthorn Club, Des Moines, Iowa; Earl S. Girton, Secy., Marshalltown, Iowa.
Oct. 23—Illinois Polled Shorthorn Breeders, Princeton, Ill.; Hal Longley, Mgr., 16 S. Locust St., Aurora, Ill.
Oct. 27—Missouri Polled Breeders, Sedalia, Mo.; E. J. F. Early, Secy., Lexington, Mo.
Dec. 3—Otto Johnson, Lohrville, Iowa; dispersion sale at Carroll, Iowa; Merv. Aegerter, Mgr., Seward, Neb.

MILKING SHORTHORNS

Sept. 27—Eastern Iowa Sale, Cedar Rapids, Iowa; A. R. Culton, Mgr., Sigourney, Iowa.
Sept. 28—Iowa Shorthorn Breeders, Waterloo, Ia.; Ben Clampitt, Mgr., New Providence, Iowa.

DAIRY CATTLE

Aug. 23—Imported Canadian-Bred Ayrshires, at Twentieth and L St., South Omaha, Neb.; H. C. McKelvie, Owner.
Sept. 3—Milton Ephaus (Holsteins), Concordia, Mo.; Donald J. Rowman, Mgr., Hamilton, Mo.
Sept. 4—"Dairy Spot of Iowa," Fourteenth Annual Holstein Sale, Waterloo, Iowa; Claude E. Wylam, Mgr., Waverly, Iowa.
Sept. 8—George J. Muck (Jersey Dispersion), Trenton, Mo.; Dorris D. Brown, Sale Mgr., Columbia, Mo.
Sept. 9—Clark Schaffbuch, Brown Swiss Dispersal, Ladora, Iowa; L. S. Van Auken Mgr., North English, Iowa.
Sept. 17—Holstein Dispersion, George D. Gates & Sons, Jamesport, Mo.; Donald J. Rowman, Mgr., Hamilton, Mo.
Sept. 22—Tri-County 22d Annual Guernsey Sale, Wellman, Iowa; Truman Erb., Mgr.
Sept. 22—Iowa Brown Swiss Assn., Waterloo, Iowa.
Sept. 12—Southeastern Iowa Holstein Breeders, Wellman, Iowa; Clark Gingerich, Mgr.
Oct. 14—Iowa State Ayrshire Sale, Waterloo, Iowa; Richard M. Sears, Sale Mgr., Grinnell, Iowa.
Oct. 18—Iowa Holstein Breeders Assn. Sale, Waterloo, Iowa; Dallas V. McGinnis, Secy., 912 Waterloo Bldg., Waterloo, Iowa.
Oct. 19—Southeastern Iowa Ayrshire Sale, Wellman, Iowa; Richard Sears, Mgr., Grinnell, Iowa.
Oct. 30—Wylamyna Invitational Sale, Holsteins, Wylamyna Farm, Waverly, Iowa.
Nov. 20—Fourth Dairyland Sale, Waukesha, Wis.; Phillips Sales and Pedigree Service, Mgrs., Waukesha, Wis.
Dec. 4—"Parade of Holstein Bulls," Show and Sale, Waterloo, Iowa; Claude E. Wylam, Mgr., Waverly, Iowa.

STOCKER AND FEEDER CATTLE

Sept. 9—Oswald Strand & Sons, Manly, Iowa.

BERKSHIRES

Oct. 12—Hi-View Farm, Eagle Grove, Iowa.

CHESTER WHITES

Sept. 30—Night Sale, Clarence Smith, Jr., Primghar, Iowa.
Oct. 2—A. L. Ridne & Son, Lake Mills, Iowa.
Oct. 6—C. T. Keen & Sons, Legrand, Iowa.
Oct. 8—Night Sale, Henry Jurgensen, Olin, Iowa.
Oct. 11—Night Sale, Joe Madden, Maryville, Mo.
Nov. 3—Westcott Bros., Denison, Iowa.

DUROC JERSEYS

Oct. 4—Walter Riebesell, Calumet, Iowa.
Oct. 5—Bert Brock & Sons, Sioux Center, Iowa.
Oct. 6—Juhl Bros., Lucerne, Minn.
Oct. 7—Ernest L. McDermott, Wiota, Iowa.
Oct. 8—Corwin C. Peer, Algona, Iowa.
Oct. 9—W. M. Smith, Milford, Iowa; sale at Spencer, Iowa.
Oct. 12—J. S. Golder, Oakland, Neb., and Gilbert Lamoreaux, Hooper, Neb.; J. S. Golder, Mgr.; sale at Hooper, Neb.
Oct. 21—Paul Hiveley, Duncombe, Iowa.
Oct. 22—W. H. Helmke & Sons, Renwick, Iowa.
Oct. 25—Henry E. Krull, Buffalo Center, Iowa.•

LIVESTOCK FIELDMEN

M. T. WHITE, 604 No. Fortieth St., Omaha, Nebraska. Phone Walnut 1056.
J. E. HALSEY, 1912 Grand Ave., Des Moines.
M. W. BONEY, Box 740, Storm Lake, Iowa; Phone 970-R.

We publish the FIRST and THIRD Saturday of every month. Copy for livestock advertising must reach our office FIFTEEN days before date of issue.

Around the Farm AND IN THE Feed Lot

by HOWARD MARSHALL

OUR 1948 IOWA FAIR, as well as a number of other State Fairs this month and next, will be about the biggest agricultural extravaganzas we have ever had a chance to attend. Many midwesterners will take vacations at the state fairs this month. Walnut Grove will have a display at the Iowa exposition, which opens August 27. We hope you will drop in and visit with members of our Walnut Grove Family. See you at the Fair!

SPEAKING OF FAIRS, did you know that Chicago is going to put up a county fair this year "within hog-calling distance of the subway"? It will be a full-fledged duplication of what all of us can see in our own counties. Fat pumpkins and fine livestock, along with other attractions. Prizes will total $40,000. It's not so silly as it may sound when you think of the number of former farmers now on State street—and the memories the show will mean to them.

IF GRAINS DECLINE, as now anticipated—probably to government support levels in many cases—and if livestock numbers are no higher than farmers and USDA experts now claim, the livestock feed ratio looks very promising, indeed. Of course, good, efficient feeding has always paid out, but right now it looks as though it may pay out better than ever in the years ahead.

WE'RE ENTHUSIASTIC over quality of Walnut Grove Minerals. For over 30 years we've been putting together the highest quality ingredients that we can secure to make these high-class minerals. We will continue to emphasize this quality in putting out Walnut Grove Minerals. Some of our customers in Lyon county, Iowa, who appreciate this extremely high quality include, among others, Vern Stiegelmeyer, Hans Nothdurft, Clair Barry, Carl Polzin, Peter Bronwer, Theodore Rogers and Lyle Rowland. Hans Hanson, of Inwood, has been our representative in this territory now for many years.

EIGHT MILLION PIGS have felt the vaccinating needle in a 10-year campaign against swine erysipelas. The project is the biggest single animal disease control program in American history. Successful erysipelas control, however, still depends on right management. Immediate diagnosis of any suspected case is recommended, thus permitting segregation of infected animals and taking steps to protect the rest of the herd from that swift and terrible killer—erysipelas.

THOUGH IOWA FARMERS have been pretty sensible about land purchases, the USDA has revealed that land prices in half the country are now above the 1920 boom figure, and that land values in all other states are getting precariously high. An agricultural economist, in analyzing the situation, says that net income from farms for the next 10 years would have to be at 1946 levels to justify current land prices. It's decidedly unlikely we can count on that. Better go slow bidding up on land.

MOST HOG MEN are now feeding recently harvested oats. They should be of good quality. Walnut Grove customers, among many others in Marion and Warren counties, who use our minerals with this newly harvested feed, include Ray Williams, Harp & Hodson, T. D. Bane, Joe Seymour, Earl Hukill, William, Roy, John, Carl and James Rogers, all brothers on five different farms. This business is handled for us by our representative in that territroy, L. C. Calaway.

LONGEVITY AND PRODUCTIVITY seem to be wrapped up together in a Missouri cow. H. H. Cunningham, of near Pollock, Mo., reports that one of his cows, "Elm Branch Blackbird," recently gave birth to her 25th calf. The cow was 18 years old last March, and has produced 18 heifers and seven bulls. It would be our observation that Cunningham's cow "doesn't owe him a thing."

IOWA FARMERS lead the world in producing corn, hogs, choice beef, soybeans and a number of other top farm items, but with pastures they don't do so well. Yet pastures are very important to efficient agriculture and saving soil. We suggest more study be given to pasture improvement early this fall. Testing pasture soil, controlling weeds, fertilizing, reseeding, etc., will help greatly.

HAILSTONES have done real damage in scattered parts of the corn belt. In northwest Iowa, farmers around Sibley, Ashton and Melvin saw a lot of corn beat down to stumps, while grain was similarly devastated. The same is true in several other areas. Reports from southwest Iowa told of a hailstorm in which stones up to nine inches in circumference ruined crops and killed considerable poultry, and on one farm killed a 100-pound pig.

WE BELIEVE that many livestock men have found this year that it is possible to save a lot of feed in the feeding of hogs, and still raise healthy hogs. This should be inspirational and of use in the future. We believe many men have found that Walnut Grove Minerals have been instrumental also in the saving of feed. Men who have feed by using Walnut Grove Minerals in Black Hawk county, Iowa, among many others, are Don Zmolek, Don Burrows, Albert N. Demuth, Orie Faulk, Don McDougall and Julius Delegardelle. These men have received Walnut Grove services for many years from our representative in that territory, Joe Even.

JUNE PIGS are a lot more numerous in Iowa this year than for some time. Official reports show 172,000 young porkers arriving in June this year, 40 per cent over last year's June total. The report also indicates a substantial increase in fall farrow, with some 725,000 sows kept for breeding purposes. That's about 10 per cent above the number of brood sows kept for 1947 fall farrow.

BUT WHILE MORE pork chops are on the way, prospects for choice roasts and steaks are getting no better fast. July reports, from Iowa and federal statisticians, told that 30 per cent less cattle were on feed then than a year earlier. About 52 per cent of those on feed were in lighter-weight classes. We can appreciate the gamble confronting cattle feeders, but at the same time, with numbers down, and grain prices decreasing, there is new hope.

THE VALUE of any livestock mineral feed is usually established in the customer's feed yard. It is he who wants quick results. We believe there is no mineral today that will show quicker results in the feed yard than Walnut Grove Minerals. Greene county, Iowa, farmers, among many others who agree with us on this, are Roy Clifford, Harvey Lawton, Arthur and Ralph Brown, brothers on two farms, Don Wilcox, W. H. Heckman and Fred Haberlain. Ed Brown, of Jefferson, looks after this business for us.

CURRENT CORN PRICES, on top of a generally good grain harvest, add up to a number of things, including more concern about the export market, more interest in government loans, additional plans for corn and other farm storage, and prospects for a more favorable feed ratio. As for this matter of storage, we would say that farmers had best make plans now for good crib space, both permanent and temporary. It looks like they'll definitely need it.

STRIKING oil or finding a gold mine on their farm would appeal quite a lot to most farmers, but out near Denver a truck farmer and a dairyman struck oil recently, and they are not the least bit happy about it. High octane gas is seeping around all over their places, spoiling their water for drinking, irrigitation and livestock purposes. The farmers are afraid they will have to leave their farms—all because of a little "gusher" they didn't want.

Walnut Grove Minerals

SOLD ONLY BY *DEPENDABLE REPRESENTATIVES*
★ HOME OFFICE ATLANTIC, IOWA

Coming Livestock Sales

(CONTINUED)

HAMPSHIRES

Oct. 7—O. W. Jones & Son, Ute, Iowa.
Oct. 11—Night Sale, Frantz Bros., Grand Junction, Iowa.
Nov. 1—Matt Loeatis & Sons, Fort Dodge, Iowa.

POLAND CHINAS

Sept. 27—John Supple, Ryan, Iowa, and J. J. Huber, Coggon, Iowa.
Oct. 5—C. W. Crees, Bayard, Iowa.
Oct. 5—Night Sale, Lakeside Farm, Eugene Dugan, Storm Lake, Iowa.
Oct. 12—Edward E. Forest, Mt. Vernon, Iowa.
Oct. 13—Emmert Farm, Mason City, Iowa.
Oct. 13—Night Sale, Brown & Brown, Hampton, Iowa.
Oct. 14—Helgens Bros., Monticello, Iowa.
Oct. 14—R. F. Anderson & Son, Botna, Iowa; sale at Manning, Iowa.
Oct. 25—Night Sale, at Algona, Iowa, Louis J. Reilly, Lone Rock, Iowa.

SPOTTED POLAND CHINAS

Sept. 14—Cecil Wilson, Lenox, Iowa.
Sept. 28—Nelson & Paulsen, Blair, Neb.
Oct. 2—Night Sale, Jack Zimmerman, Earling, Iowa.
Oct. 4—John Clausen & Son, Davenport, Iowa.
Oct. 4—Julius F. Roths, Rock Rapids, Iowa.
Oct. 6—Earl Kellogg & Sons, Winfield, Iowa.
Oct. 8—Karl E. Carlson, Lakefield, Minn.; sale at Spencer, Iowa.
Oct. 8—Night Sale, Fred F. Goodchild & Sons, Malland, Iowa.
Oct. 12—Night Sale, Gerrit J. Kempers & Son, Hull, Iowa.
Oct. 13—A. J. Anderson & Sons, Kellogg, Iowa.
Oct. 15—Miles M. Mann & Son, Woodbine, Iowa.
Oct. 19—Night Sale, Forest Jackson & Sons, Lytton, Iowa; sale at Sac City, Iowa.
Oct. 23—Night Sale, E. C. Marty & ons, Luverne, Iowa.
Oct. 25—Night Sale, Kenneth R. Dingel, Ocheyedan, Iowa; sale at Sibley, Iowa.
Oct. 26—Homer Wicks, Radcliffe, Iowa.
Oct. 26—Night Sale, Harvey C. Larsen, Elk Horn, Iowa; sale at Harlan, Iowa.
Oct. 27—Night Sale, Alvin Sunderman & Sons, Clarinda, Iowa.
Nov. 8—Forrest Green, Orient, Iowa.

YORKSHIRES

Aug. 24—Night Sale, P. M. Swartzendruber, Wellman, Iowa, Sale Mgr.

SHEEP

Sept. 4—Roy B. Warrick, Hampshire Sheep, Oskaloosa, Iowa.
Sept. 20—Sixth Annual Southwest Purebred Assn., Ram Sale, Creston, Iowa; Dwight Carmichael, Secy., Villisca, Iowa.
Sept. 21—Mahaska Purebred Sheep Breeders Ram Sale, Oskaloosa, Iowa; Herbert F. Hoover, Sale Mgr.
Sept. 25—Northwest Iowa Sheep Breeders, Spencer, Iowa; Wilbur Goedicke, Secy., Spencer, Iowa.

Bees Boost Seed Crop

Bees increase red clover seed yields by about three bushels per acre, according to F. B. Paddock, Iowa State College entomologist.

Average red clover seed yield is one bushel per acre for Iowa. But where bees are within flight distance, the yield is increased to around four bushels in most cases, Paddock explains. At $45 per bushel, the added clover seed is well worth the cost of the bees, Paddock believes.

The lack of a satisfactory working arrangement between farmers and bee-keepers has been the drawback of using bees for fertilizing clover. Straight rentals of $2.50 per colony have been charged, four colonies per acre.

Bee-keepers thought they were getting too little rent for their bees. And farmers thought they were paying too much for the "gamble" for extra seed production.

Using a new system recently worked out, the bee-keeper charges the farmer no rent, but receives a share of the seed produced, over and above the state average of one bushel per acre. This way, the farmer has no money invested in bee rental. And he pays off only if he gets increased profits.

• Excellent educational and descriptive material on these subjects is offered to you by advertisers in this issue. Write direct to the manufacturers whose advertisements appear on these pages for your copy of this information.

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Standard Oil Rural Agent Bob Basten tells Joe Clemens of Eyota, Minn., how neighboring farmers come out money ahead on Special Farm Deal.

"Yes, farmers on my route come out money ahead on the Special Farm Deal," says Standard Oil Rural Agent Bob Basten, Rochester, Minn. "This year, for instance, Ralph Daly saved $5.44, Albert Fenske saved $26.43, and others saved different amounts in between. They made these savings through discounts on their regular purchases of oils, greases and other products."

That's just one Standard Oil Agent telling how his customers cut costs. Over 3700 other agents could tell much the same story, for hundreds of thousands of midwest farmers make similar savings every year.

You save, too, when you get in on Standard Oil's Special Farm Deal. You get the special discounts offered by your Standard Oil Man. You get quality products you are going to need. You have them delivered when you want them. You pay only on delivery and you save as you pay.

So ask *your* Standard Oil Man for the details of his money-saving, trouble-saving Special Farm Deal. Ask him today!

PERMALUBE—Standard's finest motor oil; gives premium-plus lubrication; cleans engines and keeps 'em clean.

ISO-VIS—High-quality motor oil; supplies top-notch lubrication; stands next to Permalube in engine-cleansing properties.

POLARINE—Medium-priced motor oil; lubricates safely.

Standard Greases—Right types and grades for every purpose.

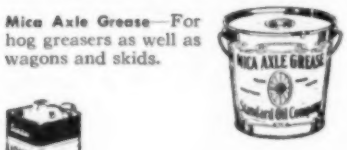
ALL AVAILABLE IN STANDARD'S SPECIAL FARM DEAL

Superla Insect Spray—Exceeds National Bureau of Standard's grade "AA" requirements.

Superla Insect Spray with DDT—For spraying on walls; ceilings, etc. Keeps killing for weeks.

Bovinol Stock Spray—Cuts milk losses caused by flies.

Bovinol 25% DDT Concentrate—Mix with water for spraying barns and stock.



Mica Axle Grease—For hog greasers as well as wagons and skids.

Semdac Liquid Gloss—For woodwork, furniture, and unfinished floors.

Semdac Flor-Glaze—Self-polishing wax for linoleum, composition and finished floors.

Superla Cream Separator Oil—Also used for oil-bath gears in windmills.

Finol—Useful in "1001" ways where a light, fine oil is needed.

Harness Oils—For both black and tan harnesses.

Eureka Belt Dressing—For canvas aprons of combines, binders and headers, and for husking mittens.

Standard Rustproof Compound—Protects metal equipment against rust, in any weather.

STANDARD SERVICE STANDARD

STANDARD OIL COMPANY